PUBLIC HEALTH REPORTS

VOL. 34

JUNE 27, 1919

No. 26

RESOLUTION OF THE SECTION ON PREVENTIVE MEDICINE, AMERICAN MEDICAL ASSOCIATION.

Health administrators the country over have often complained of the failure of a certain proportion of the physicians practicing in their community to make prompt reports of cases of communicable diseases as required by law. Yet it is well recognized that nothing is more important in order that the health authorities may take proper steps adequately to safeguard the health of the rest of the community.

The American Medical Association has repeatedly placed itself on record as binding its members to support public health work, and it is gratifying to learn that at the recent meeting of this association at Atlantic City the following resolution was adopted by the Section on Preventive Medicine and Public Health:

Resolved, That the Section on Preventive Medicine and Public Health of the American Medical Association recommend to the House of Delegates that it ask the constituent associations to consider the advisability of such amendments to their by-laws and to those of this association as will eliminate from membership any physician who willfully fails or refuses to comply with local or State laws for the prevention of disease, including especially the provisions in such laws requiring the reporting of cases of communicable disease.

The enforcement of such an amendment to the by-laws as here proposed would be of incalculable value to the public health movement. It would make it possible to bring delinquent physicians before a court consisting entirely of their peers. This would make the American Medical Association insist that membership in the association depend on the faithful performance of the physician's duties not only to his patients, but to the public at large.

The association is to be congratulated on thus squarely accepting the responsibilities placed upon its members. Such cooperation is indeed appreciated by health administrators everywhere.

OBSERVATIONS ON THE BACTERIOLOGY OF INFLUENZA.1

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These observations were made upon (A) patients affected in an epidemic in the Student Army Training Corps of the University of Chicago, (B) civilian influenza patients in various hospitals in the

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¹ The author wishes to acknowledge his indebtedness to Dr. J. F. Norton and Miss Elizabeth Arentz for assistance in this work.

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vicinity of the University of Chicago, (C) patients, mainly university students, who developed influenza in December, 1918-February, 1919, after the main Chicago epidemic had subsided, and (D) cases of tonsillitis, "colds," and other respiratory tract affections occurring during and subsequent to the epidemic. An attempt was made in Groups A, C, and D to study a few cases in great detail, making frequent and very thorough bacteriological examinations. In one case of influenza-pneumonia, for example, observations extended over a period of 36 days until convalescence was complete and the patient was discharged, and included sets of plate cultures on 25 different days.

One object especially in view was the determination of the relative frequency and abundance of the Pfeiffer bacillus in the upper respiratory tract of persons suffering from influenza and from common, nonspecific respiratory tract infections. Another was a series of similar observations upon the diplo-streptococcus described by Mathers.¹ Variations in the nose and throat flora throughout the illness of one and the same individual were also particularly noted.

Methods.—In the majority of cases swabs were made from the nose, tonsils, and nasopharynx; the nasopharynx swabs were obtained by the Mathers bent-wire method as used in meningococcus-carrier work.² Nasal swabs usually failed to give results materially different from the others and in the later cases were omitted.

As soon as made, the swab was smeared on freshly poured warmblood agar plates, which were kept warm en route to the incubator. The meat infusion agar was prepared with 2 per cent peptone and made neutral to phenolphthalein; it has proved well adapted to the growth of pure cultures of the Pfeiffer bacillus. Human blood and sheep blood (5 per cent) were chiefly used; no material difference was noted. From the smear, radiating streaks were made with a platinum loop 2 and crossed after burning off the needle. Well-separated colonies are usually obtained in this way. It has been found advantageous to have plates poured on the day they are used, or at most not more than 24 hours before use. Special care was taken to keep the air of the incubator moist. If the surface of the plate is dry when inoculated, or if the air of the incubator is not sufficiently moist. growth of the Pfeiffer bacillus may be unfavorably affected. The plates were examined after 24 hours and again after 48 hours; a hand lens was always used. In the present series particular attention was paid to the occurrence of the Pfeiffer bacillus and the green-producing streptococcus isolated by Mathers.1 Other bacteria, when present in noteworthy numbers, were also isolated and examined. As a rule, several colonies from each plate were circled and fished with a platinum loop to a fresh plate; if this second plate was a pure culture, appropriate

¹ Jour. Amer. Med. Assoc., 1918, 71, p. 1733.

² "Standard Technique of Meningococcus Carrier Detection," published by the Medical Departments of the Army and Navy and the United States Public Health Service.

diagnostic tests were made. Heated blood-agar plates on which the Pfeiffer bacillus grows with special luxuriance were used in many cases, together with the standard blood-agar plates, but their use has not been essential for the isolation of the Pfeiffer bacillus which has grown freely upon the plain blood-agar medium which we used.

The well-known favoring influence of hemolytic colonies upon the growth of the Pfeiffer bacillus has been often observed; it has also been noted that the colonies of certain nonhemolytic bacteria have a similar stimulating effect which is quite as marked. In cases in which the growth of the Pfeiffer bacillus on the first plates was scanty after 24 hours, we sometimes obtained much larger colonies by streaking the plates with one of the growth-favoring organisms and incubating for 24 hours longer. Occasionally the original plate was too crowded for proper examination, and in such cases a second plate was made from it before fishing. Two points have seemed of special importance in the successful isolation of the Pfeiffer bacillus, particularly when this organism is present in small numbers: First, the incubation of the plates for two or three days; second, the use of the hand lens.

Sputum was examined when it was possible to obtain it. Direct stains were made and also smears on blood-agar plates in the usual way. When, as is often the case in uncomplicated influenza, sputum in washable quantity was unobtainable, we had the patient cough directly upon a blood-agar plate. Little flakes of mucus were sometimes discharged, and after 18–24 hours the growth surrounding these mucous droplets was transferred with a loop to a fresh plate. In this way the Pfeiffer bacillus has been isolated several times when the other sources of examination failed to yield it.

Blood cultures.—Blood drawn from the elbow vein (about 10 cc in each case) was added to warm broth (200 to 500 cc) and incubated for about a week. The observations comprised 11 cases of uncomplicated influenza and 8 of influenza-pneumonia. In the plain influenza cases blood was drawn on the first day in 2 cases, on the second day in 5, and in 1 case each on the third, fourth, fifth, and seventh days. In the pneumonia following influenza the blood cultures were made, respectively, on the fourth (2), fifth (1), sixth (1), seventh (2), eighth (1), and twelfth (1) days. All were sterile.

The Pfeiffer bacillus.—The small, translucent colonies on blood agar can often be identified with a high degree of certainty with the hand lens, particularly if they are numerous, in which case the heaping-up around large colonies of staphylococci and other bacteria is highly characteristic. For definite identification it has been our practice to transfer single, isolated colonies to a fresh plate; if typical growth was obtained, failure to grow on plain agar together with characteristic morphology and gram-stain reaction were regarded as sufficient identification marks. A strong, luxuriant growth can be

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obtained on agar prepared with heated blood, but except for obtaining large quantities of material for inoculation experiments this medium presents no noteworthy advantages over the ordinary clear medium. It is not particularly well adapted for isolation.

It is of interest that a medium made without meat infusion, meat extract, or peptone—simple agar dissolved in physiological salt solution—to which 5 per cent of blood is added in the usual way—yields a scanty, but undoubted growth of the Pfeiffer bacillus.

For preserving cultures it is safest to make daily transfers, though if the air of the incubator is kept moist the Pfeiffer bacillus can retain its vitality for a considerable period in the incubator. We have frequently obtained growth from tube cultures that had been in the incubator for from two to three weeks. The heated blood medium is better than the ordinary blood medium for maintaining vitality.

The Mathers coccus.—This organism was isolated by the late Capt. Mathers during the influenza epidemic in September, 1918, at Camp Meade. A culture kindly furnished me by Miss Tunnicliff possessed the characters described in her paper.¹ It resembles the ordinary mouth streptococcus in some of its characters, but the colonies on blood agar are much like those of the pneumococcus, although, as a rule, larger, moister, and more confluent. It is grampositive, usually with pointed ends and in pairs. It is not soluble in bile, and most strains ferment neither inulin nor mannite. Morphologically and in colony growth it is closer to the pneumococcus than to the streptococcus, but the fermentation characters are those of the ordinary mouth streptococci.

A coccus with these characters was found in a large percentage of the cases examined, not infrequently in practically pure culture, especially in cultures from nasopharyngeal swabs. One hundred and eight strains obtained at different times from 44 different cases were subjected to careful examination. All were gram-positive, had the morphology described above, and gave a heavy, moist, green, confluent growth on blood agar. Table I shows their close relationship to strains of *Streptococcus buccalis* (Blake's classification) isolated in this same series of cases, although in morphology and in appearance of the growth on blood agar the difference is sharp.

TABLE I.

Num- ber of strains.					Fermen	tation.				
	Bile solubility.		Lactose.		Inulin.		Mannite.		Remarks.	
	+	-	+	-	. +	-	+	_		
108 85 27	27	108 64	105 84 27	3	4 2 22	104 62 5	5 1 22	103 63 5	Mathers coccus. Streptococcus buccalis Pneumococcus IV.	

Attempts to differentiate the Mathers coccus and Streptococcus buccalis by testing their fermentation powers on a larger number of carbohydrates have given negative results. A comparison of 10 strains of each gave results as follows: Positive—lactose, saccharose, maltose (1 strain of S. buccalis, negative), galactose (1 S. buccalis, negative; same strain negative in maltose), mannose (2 S. buccalis, negative); negative—inulin, mannite, arabinose, raffinose, sorbite, and dulcite. Type pneumococci (I, II, and III) gave similar results with these carbohydrates, except that inulin and mannite were fermented by all.

The methods of observation of the cases studied are illustrated in Table II.

TABLE II.

CASE 21 (Influenza-pneumonia).

Day of disease.	Day of disease. Temperature.			Mathers coccus.	Other bacteria.	Remarks.
Second	103	7,300	-	+	Pneumococcus IV, M.	M. catarrhalis more
Third	102	5,500	-	+	M. catarrhalis	abundant than any
Fourth	103	5,000	-	-	do	other on these dates
Fifth		3,700	-	-	Many diphtheroids	1
Seventh	104. 2	4,600		_	Many staphylococci	
Eighth		4,200		-	Many diphtheroids and streptococci.	
Ninth Fifteenth	103, 2 100, 4	6, 200 9, 900	+	=	Many staphylococci S. buccalis (Pfeiffer ba- cillus very abundant).	Almost pure culture o staphylococci in na sopharynx. This is rather unusual.
Eighteenth Twenty-first	99. 4 98. 4	14,400 14,200	++	++	Some diphtheroids S. buccalis	rather unusuar.
Twenty-sixth	98	1 12,900	+	+	do	
Thirty-seventh.	98	7,800	-	-	Streptococcus buccalis; M. catarrhalis.	
EVA	100	C.	ASE 24 (U	ncomplie	rated influenza).	
First	102 102 100, 6 99 99	6,000 5,400	ASE 24 (U	neomplie	Staphylococci	
Second	102 100, 6	6,000 5,400 8,000	++	= =	Staphylococci	
Second. Third. Sixth Sixth Cighth, Discharged.	102 100, 6 99 99	6,000 5,400 8,000	++	ncomplice	Staphylococci. Diphtheroids, M. catarrhalis, M. catarrhalis. M. catarrhalis. B. mucosus capsulatus. A few S. buccalis.	Almost pure culture
Second. Third Fifth. Sixth. Eighth. Discharged.	102 100, 6 99 99 99	6,000 5,400 8,000	= + + + SE 66 (U	ncomplice	Staphylococci. Diphtheroids, M. catarrhalis. M. catarrhalis. B. mucosus capsulatus A few S. buccalis	\Almost pure culture
Recond. Third. Fifth. Sixth. Eighth. Discharged.	102 100, 6 99 99	6,000 5,400 8,000	++	ncomplies	Staphylococci. Diphtheroids, M. catarrhalis, M. catarrhalis. M. catarrhalis. B. mucosus capsulatus. A few S. buccalis.	Almost pure culture Mathers coccus not nearly so abundant as on preceding days.
Recond. Third. Fifth. Sixth. Sixth. Discharged. First Geoond. Third.	102 100, 6 99 99 99	6,000 5,400 8,000 CA	- + + +	ncomplice	Staphylococci. Diphtheroids, M. catarrhalis, M. catarrhalis. M. catarrhalis. B. mucosus capsulatus. ated Influenza). A few S. buccalis	Almost pure culture Mathers coccus not mathers coccus not nearly so abundant as on preceding days. Few if any bacteria be-
Recond. Third. Fifth. Sixth. Sixth. Discharged. First Geoond. Third.	102 100, 6 99 99 99	6,000 5,400 8,000 CA	- + + +	ncomplice	Staphylococci. Diphtheroids, M. catarrhalis. M. catarrhalis. B. mucosus capsulatus A few S. buccalis	Almost pure culture Mathers coccus not nearly so abundant as on preceding days. Few if any bacteria be-
Second. Third. Fifth. Sixth. Eighth. Discharged.	102 100, 6 99 99 103 100 100	6,000 5,400 8,000	= + + + SE 66 (U		Staphylococci Diphtheroids, M. catarrhalis, M. catarrhalis. M. catarrhalis. B. mucosus capsulatus ated Influenza). A few S. buccalisdo Staphylococci Many staphylococci	Almost pure culture Mathers coccus, Mathers occus not nearly so abundant as on preeding days.

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In all, 47 cases of influenza were studied in this way. The distribution of the Pfeiffer bacillus and the Mathers coccus was as follows:

TABLE III.

e Group."	Number of eases examined.		Number in which Mathers coccus was found.
A1. Uncomplicated influenza, October	11 8 17 11	8 3 11 8	4 8 8
Total	47	30	31

Arrangement in such a numerical table has its limitations and does not give a complete picture of the findings, since most of the cases in Groups A1, A2, and C were examined many times, while nearly all of those in Group B were examined only once. Groups A1 and A2 are fairly comparable with one another in respect to the number of observations in each case, and so far as the examination of this limited number of cases from one localized epidemic is concerned, there is no doubt that Pfeiffer bacilli occurred more frequently and more abundantly in the uncomplicated influenza cases than in those in which

pneumonia developed.

Comparison of the tabular record for Groups A1 and C, on the other hand, might be misleading, since the Pfeiffer bacillus was present in much larger numbers in the December-February cases (Group C) than in the October cases (Group A1). Whereas in the earlier cases Pfeiffer bacillus colonies were relatively infrequent compared with the numbers of other bacteria, in the later cases there were many plates in which the Pfeiffer bacillus and the Mathers coccus were practically the only organisms present. Considering the number of colonies of Pfeiffer bacillus on each plate and the proportion of daily observations that were positive, the actual abundance of this organism in the upper respiratory tract was far greater in the later cases than in the cases observed during the height of the epidemic in Chicago. The contrast between the cases in Group B and those in Groups A1 and A2 (Table III) was even more pronounced. Although the total of examinations in the hospital cases was much smaller, the Pfeiffer bacillus was present in a relatively high proportion of the plates examined and usually in great numbers. The significance of relative abundance as disclosed by plate culture is somewhat problematical and the bearing of such facts upon the rôle of the Pfeiffer bacillus must be regarded for the present as quite uncertain.

In 18 cases in which the Pfeiffer bacillus was found, examinations made on the first to the third day of the disease showed this organism present in 8, the Mathers coccus in 11 cases; in 7 cases neither of these organisms was found on the first three days of the disease. In 6 of the 10 cases in which the Pfeiffer bacillus was not found on the first three days, it was found later (see, e. g., Table II, cases 24 and 66). The Mathers coccus, when present at all, was always found on the early days of the attack.

Other bacteria.—The usual bacteria of the upper respiratory tract were found in most of the cases, although in greatly varying numbers, both in different individuals and in the same individuals on different days. The men in the Section B epidemic group (Table I. Groups A1 and A2) harbored a far greater variety of bacteria than patients from other sources. The close contact of these men with one another during their preliminary illness and in the emergency hospital evidently favored a generous transfer of bacteria from throat to The result was that at the time of our examination the variety of bacteria that had found a congenial soil was very large. Diphtheroids were especially numerous and were found abundant in all the earlier cases. M. catarrhalis was also very commonly present. often in great numbers. (See Table II, case 21.) S. buccalis occurred in varying numbers, but was rarely very abundant. In many of the Section B cases in October a large gram-negative diplococcus was present which formed very delicate, translucent colonies and died out readily even when transferred frequently on blood-agar. It grew in the first generation very scantily on plain agar and since it did not ferment dextrose it is perhaps to be regarded as belonging to the M. catarrhalis group, although under the conditions of our work it proved a much less vigorous organism than M. catarrhalis or than the Pfeiffer bacillus.

Pneumococci were found in 10 cases, but several strains were irregular in respect to inulin and mannite fermentations. All but one (IIa) fell in Group IV on application of the agglutination test.

The Friedländer bacillus was found in 4 cases, in one of these in large numbers.

Hemolytic streptococci were found in 7 cases, all but one of these in the later stages of the epidemic; in 5 cases they were numerous. In one patient no hemolytic streptococci were observed during the primary attack (3 sets of examinations). Twelve days after recovery and discharge, the patient was readmitted with a temperature of 104° and subjective symptoms described as being very similar to those of the original attack; hemolytic streptococci were present in practically pure culture in the throat and nasopharynx. This second attack or relapse was of short duration and the patient was discharged five days later. Bacteriologically, it appeared like a new infection with an organism not originally present. The leucocyte count on the fourth day of the second attack was 14,500. A second case of the same nature was found later.

Bacteriology of colds, etc., during the epidemic.—Twenty-eight cases of tonsillitis, sore throat, and common cold among university students were examined—about half of these (13) while the influenza epidemic was at its height in October–November, 1918, the others in January–March, 1919, after the influenza cases had practically disappeared from the neighborhood. The organisms most commonly found on blood-agar plates were as follows:

Total cases examined	28
Mathers coccus	15
Hemolytic streptococci	12
Pneumococcus IV	7
Pfeiffer bacillus.	4

The Friedländer bacillus was found once in abundance and M. catarrhalis was found several times, though not in large numbers.

Observations on these cases were made in precisely the same manner as that of the observations upon the influenza cases. Typical records in Table IV may be compared with the influenza records in Table II.

Case 100 (Common cold).

Day of disease.	ease. Tem- pera- ture. c		Pfeiffer bacillus.	Mathers coccus.	Other bacteria.	Remarks.
Second Sixth Seventh	104 101.6 102	8,900 8,100 7,800	-+	=	M. catarrhalis. Hemolytic streptococci S. buccalis.	
		(CASE 101 (Severe co	ld, sore threat).	
Third Fifth Sixth Seventh Eighth Thirteenth Fourteenth	102 100 90 100 99	10,500 8,100 7,900 6,000 5 400 10,200 7,600	++	-+++-+	M. catarrhalis Pneumococcus IV S. buccalis dodo.	2
				CASE 10	03.	
First	98 98	12,900	-	++	Pneumococcus IV, 8. burcalis. Pneumococcus IV, 8. buccalis, M. catarrhalis.	
Fourth	98 98	10,300 7,800	=	+	S. buccalis, M. catarrh- alis.	
Seventh	98	6,600	-	+	Pneumococcus IV, S. buccalis, M. catarrhalls.	1
			CASE	111 ¹ (To	nsillitis).	
SecondFourth	102	9,700 13,400	=	‡	Hemolytic Streptococci . S. buccalis	Almost pure culture hemolytic strepto- cocci; very few other colonies.

¹ Case 111 was one of 4 cases of tonsillitis developing at the same time, and all with a history of exposure at a party 18-24 hours before attack. All 4 cases showed leucocytosis during the first 4 days of the attack, the maximum ranging from 13,400 in one case to 20,800 in another. Three of the cases showed a relative increase of the neutrophils (82 to 86 per cent). The bacteriological picture as shown in throat and nasopharynx swabs was remarkably similar. Hemolytic streptococci were very abundant on all plates and were by far the predominating organisms. In one case pneumococcus IV was present in small numbers in one examination, but in the other only a few colonies of the Mathers streptococcus and of S. buccalis were found in addition to the hemolytic streptococci. Between the first and second examinations two throat treatments with methylene blue were given, but the character of the flora of nasopharynx and throat was not appreciably altered by this procedure.

The clinical picture of these common endemic respiratory tract infections was distinctly different from that of epidemic influenza, although many of the symptoms were similar and the attack, at first, was frequently regarded by the patients and others as influenza. Headache, dizziness, and pain in the joints and limbs were common accompaniments of these cases, and in some instances the onset was sudden. On the other hand, sore throat was much more frequent and pronounced than in the cases of epidemic influenza, and patches were often observed on the mucous membrane. In the majority of cases the temperature did not run above 102°, and the fever was not prolonged beyond 24–48 hours. The leucocyte count was high in nearly all these cases. Thirty-nine leucocyte counts made in 20 cases, usually on the two days of the height of the attack, gave an average of 11,500. The range was as follows:

Above 10,000	22
7,000-10,000	11
Below 7 000	6

In only one case was the leucocyte count similar to that observed in the majority of cases of true influenza. In this case (107) the leucocytes were: Third day, 6,700; fourth, 4,500; fifth, 5,200; seventh, 5,100. The symptoms were not unambiguous: Headache, pain in back, no sore throat, no cough, no nosebleed. The temperature was not high (second day, 101.8) and quickly subsided (third day, 98.6) and none of the symptoms was severe. The predominating organism on the third, fourth, and fifth days was the Mathers coccus, although some pneumococci Type IV were found on the fourth and fifth days. On the seventh day many Friedländer bacilli were found. This case may have been one of light influenza, but there were no other cases in the neighborhood or among the associates of (107) at this time (Feb. 2–8, 1919).

In comparing the October-November cases of cold with those in January-March the most conspicuous difference was the much larger number of cases with hemolytic streptococci and with pneumococci (Type IV) in the latter group.

TABLE V .- Bacteria in cases of cold, etc.

	Number of cases.	Hemo- lytic Strepto- cocci.	Pneumo- coccus IV.	Mathers coccus.	Pfeiffer bacillus.
Height of influenza epidemic, OctNov., 1918 After subsidence of influenza epidemic, JanMar., 1919	13 15	2 10	1 6	4 11	1 3

The richer flora in the second group of cases may be connected with the greater severity of these cases, and this in turn may be dependent upon the season of year. At all events, the relatively mild cases of common respiratory tract infection that were examined during the height of the influenza epidemic did not harbor the Pfeiffer bacillus in nearly as high proportion as did the influenza cases examined at the same time; neither did they, except in a few cases, harbor in abundance hemolytic streptococci, pneumococci, or the Mathers coccus. In several cases the only organism growing in any considerable numbers on blood agar plates was the common mouth streptococcus (S. buccalis).

The association of large numbers of hemolytic streptococci (var. Beta) with cases of tonsillitis, and generally with cases of severe throat inflammation, was markedly evident in this series. This corresponds with the relative scarcity of this organism in the cases of true influenza, in which as a rule sore throat was not observed.

Leucocyte counts.—In the course of these observations leucocyte counts were made, as a rule, on the same days when throat swabs were taken. The average counts in simple influenza showed a leucopenia, as recorded in Table VI. The term "simple influenza" is here used to designate those cases not showing signs of clinical pneumonia. The patients usually regained a normal condition by the end of the first week, although with the ordinary aftermath of weakness.

TABLE VI.—Leucocyte counts—simple influenza.

Days of disease.	Cases.	Total leuco- cytes.	Polymor- phonu- clears. Per cent.	Lymphocytes. Per cent.	Large mononu- clears and transi- tionals. Per cent.
Second and third	13 9 6 10	6,100 4,900 6,100 7,500 9,100	63 62 59 66	28 33 32 25,	

Eosinophiles were generally absent during the attack.

Individual cases sometimes showed considerable deviation from the average. In one case the lowest count (4,300) was not reached until the eighth day of the disease. Several cases without any apparent complication gave leucocyte counts of over 10,000 for a week or more after seemingly complete recovery. In general, the counts ran rather high for some time after the patient was able to return to his ordinary vocation.

Similar observations on the influenza cases in which clinical pneumonia developed showed a drop in the number of leucocytes similar to that recorded above, but after a longer or shorter interval this was followed in each of the cases here observed by a moderate leucocytosis (14,000–15,000) which, however, in one case (cf. 21, Table II) did not

appear until about the fifteenth day. The differential ratio was not appreciably altered in these cases. Quite different is the normal leucocyte count in ordinary colds, tonsillar inflammations, etc.

TABLE VII.-Leucocyte counts-colds, etc.

Days of disease.	Cases.	Total leuco- cytes.	Polymor- phonu- clears.	Lympho- cytes.	Large mononu- clears and transi- tionals.
First, second, and third Fourth and fifth Sixth and seventh Eighth to fourteenth	22 8 7 3	12,600 11,600 8,800 7,200	Per cent. 73 74 69 68	Per cent. 22 20 25 25	Per cent. 5 6 6 7

Comparison with Table VI brings out very plainly the average differences in total leucocyte counts. Whether the slight divergences in the differential count that appear in these figures have significance will need a larger number of observations to determine. As already stated, several cases have been observed in the course of this study which, clinically, seemed more like colds than like true influenza, but which had a low leucocyte count throughout. In the absence of any definite diagnostic criterion the relationship of these infections to true influenza must remain uncertain.

Summary.

The bacteriological picture in influenza is not a uniform one so far as nose and throat flora are concerned. The ordinary methods of cultivation with blood agar plates show marked differences in individual cases. Groups of individuals who have been in more or less intimate contact with one another may harbor very similar assemblages of microorganisms, but differ from other groups examined at the same time. The variations in respiratory tract flora reported by many observers during the progress of an influenza epidemic are doubtless, in part, group differences.

Daily examinations of a number of selected typical cases, mild and severe, have shown no one organism constantly demonstrable in large numbers by the methods employed. The two organisms most commonly and abundantly present in this series were the Pfeiffer bacillus and the diplococcus or streptococcus found by Mathers at Camp Meade.

The Pfeiffer bacillus was found in 64 per cent of the influenza cases examined between October, 1918, and February, 1919. It was present in much larger numbers in the throats of the patients examined toward the end of the outbreak. Several cases did not come under observation until clinical pneumonia had developed and in these cases the Pfeiffer bacillus was not found as frequently as in the

¹ This is apparently very similar to, if not identical with, the organism described by Zingher, Jour. Amer. Med. Assoc., 1919, 72, p. 1020.

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"uncomplicated" cases. Other cases for various reasons could be examined only once or twice, and the findings are not strictly comparable with those in which daily examinations were carried out. The percentage of positive findings would probably have increased if all patients had been subjected to examination throughout the course of the attack. The relative abundance of the Pfeiffer bacillus varied greatly. In some cases it was the predominant organism: in others only a few colonies could be found, no more than in normal throats. It did not often happen in this series that hemolytic streptococci (var. Beta) and the Pfeiffer bacillus were both present in large numbers. On the other hand the Pfeiffer bacillus and the Mathers coccus often had the field almost to themselves. In a few cases the Pfeiffer bacillus was present in such overwhelming numbers in cultures from nose, nasopharynx, and throat, that participation in a pathologic process was strongly suggested. These cases, however, did not differ clinically in any appreciable way from other cases in which the Pfeiffer bacillus was found scantily.

The Mathers coccus was found about as frequently and abundantly as the Pfeiffer bacillus, although its occurrence was quite independent of that of the latter. Its association with the pneumonia cases seemed to be closer than that of the Pfeiffer bacillus, but it was also found in all the later cases of simple influenza. Variations in the abundance of this organism were quite as marked as were those of the Pfeiffer bacillus and no relation could be demonstrated between these findings and the characters of the cases. Practically pure cultures of the Mathers coccus were obtained from

the nasopharynx of some patients.

Comparison of the true influenza cases with colds and tonsillar infections showed that the general leucopenia of the influenza cases could be contrasted with the general leucocytosis of the others. Blood counts made during the first four or five days of the attack practically invariably showed at some time a leucopenia in the influenza cases and a leucocytosis in the others. The chief differences in the bacterial findings were the relative infrequency of the Pfeiffer bacillus in the colds, etc. (14 per cent), and the relatively high proportion of hemolytic streptococci (var. Beta). The Mathers coccus was present in about the same proportion of cases as in influenza.

The pneumococcus was found in about 20 per cent of the influenza cases (10:47) and in a slightly larger proportion in the cases of rhinitis and tonsillitis (7:28). No special search was made for these organisms, and it is probable that positive findings would have been increased somewhat if mouse inoculation could have been made whenever throat swabs were taken. Washed sputum, when procurable, was inoculated into mice, but the pneumococcus was not invariably isolated. In two cases as much as 2 cubic centimeters of

washed sputum from influenza patients, injected intraperitoneally, did not lead to the death of the mouse. The pneumococci isolated from both influenza and rhinitis cases were all Type IV, except one strain (IIa).

M. catarrhalis, the Friedländer bacillus, and an unidentified gramnegative diplococcus were found at times in large numbers in the throat, nose, and nasopharnyx of influenza cases. Staphylococci were also sometimes present in great abundance.

Two observations on suspected cases of "recurrence," or "second attack," have shown the presence in the throat of organisms (hemolytic streptococci) not found during the original attack. Both recurrences presented some of the clinical symptoms of influenza, but had a moderate leucocytosis. A third case of suspected "recurrence" likewise showed hemolytic streptococci in the throat and slight leucocytosis, but this patient had not been under our observation during the primary attack. It seems probable that an alleged "second attack" of influenza, occurring within a few weeks of the original attack, is, at least in some cases, a new infection with another organism.

The observations carried out by the aerobic blood agar plate method and recorded in this paper have not shown the predominance or constant presence of any one organism in the upper respiratory tract of influenza patients. The Pfeiffer bacillus, however, has been more conspicuous than any other organism, particularly in comparison with its relative infrequency in cases of rhinitis and tonsillitis examined during the same epidemic period.

POPULAR LEAFLETS ON BABY HYGIENE.

In a recent number of the Public Health Reports attention was called to the importance of health activities during the neonatal period. It is well known that the hot weather regularly brings with it an increase in mortality in this important age period. In an effort to assist State and local health officers in the educational work required to combat excessive infant mortality the Public Health Service has prepared a number of bulletins intended for popular instruction. These are available in quantity for free distribution by health officers. Requests, stating the quantity desired, should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

Fly poster-How the fly spreads disease.

41 41 11 11

The Care of the Baby. Supplement No. 10 to Public Health Reports.

The Summer Care of Infants. Supplement No. 16 to Public Health Reports.

The Transmission of Disease by Flies. Supplement No. 29 to Public Health Reports.

Safe Milk Supplement No. 31 to Public Health Reports.

Safe Milk for the Small Town. Reprint No. 497 from Public Health Reports.

The Homemade Milk Refrigerator. Public Health Bulletin No. 102.

BIRTH STATISTICS AND INFANT MORTALITY.

PRELIMINARY REPORT OF THE BUREAU OF THE CENSUS FOR 1917.

In the birth-registration area of the United States 1,353,792 infants were born alive in 1917, representing a birth rate of 24.6 per 1,000 of population. The total number of deaths in the same area was 776,222, or 14.1 per 1,000. The births exceeded the deaths by 74.4 per cent. For every State in the registration area, for practically all the cities, and for nearly all the counties, the births exceeded the deaths, in most cases by considerable proportions. The mortality rate for infants under 1 year of age averaged 93.8 per 1,000 living births.

The birth-registration area, established in 1915, has grown rapidly. It comprised, in 1917, the six New England States, Indiana, Kansas, Kentucky, Maryland, Michigan, Minnesota, New York, North Carolina, Ohio, Pennsylvania, Utah, Virginia, Washington, Wisconsin, and the District of Columbia, and had an estimated population of 55,000,000, or about 53 per cent of the estimated total population of the United States in that year.

Comparison with 1916.

The birth rate for the entire birth-registration area fell below that for 1916 by two-tenths of 1 per 1,000 population; but the death rate was less by six-tenths of 1 per 1,000 than in 1916. Thus, the excess of the birth rate over the death rate for 1917, which amounted to 10.5 per 1,000, was somewhat greater than the corresponding excess for 1916, 10.1 per 1,000, although it fell slightly below that for 1915, 10.9 per 1,000. If the birth and death rates prevailing in any one of these three years were to remain unchanged, and if no migration were to take place to or from the area to which they relate, the population of the area would increase at the rate of slighly more than 1 per cent per annum, or a little more than 10 per cent in a decade. This would be about half the rate—21 per cent—by which the entire population of the United States increased between 1900 and 1910.

White and colored.

Of the total number of births reported, 1,280,288, or 24.5 per 1,000, were of white infants, and 73,504, or 25.8 per 1,000, were of colored infants. The death rates for the two elements of the population were 13.7 and 22.5 per 1,000, respectively.

Infant mortality.

The infant mortality rate—that is, the number of deaths of infants under 1 year of age per 1,000 born alive—throughout the birth-registration area as a whole was 93.8 in 1917, as against 101 in 1916 and 100 in 1915. This is equivalent to saying that in 1915 and 1916 of every 10 infants born alive 1 died before reaching the age of 1 year,

whereas in 1917 the corresponding ratio was a trifle more than 1 in 11. Among the 20 States these rates ranged from 67.4 for Minnesota to 119.9 for Maryland; and for the white population separately the lowest and the highest rates were, respectively, 66.3 for Washington and 109.5 for New Hampshire.

The infant mortality rates vary greatly for the two sexes and for the various nationalities. The rate for male infants in 1917, 103.7 per 1,000 living births, was nearly 25 per cent greater than that for female infants, which was only 83.3. When the comparison is made on the basis of race or nationality of mother a minimum of 66.2 per 1,000 births is shown for infants with mothers born in Denmark, Norway, and Sweden, and a maximum of 172.6 for infants with mothers born in Poland, while for Negro children the rate was 148.6.

Plural births.

The reports from the registration area show the birth of 14,394 pairs of twins and 155 sets of triplets in 1917—in all, 29,253 infants, or a little more than 2 per cent of the total number born.

Number of children per family. "

The reports for 1,241,722 of the births occurring in 1917 contained information as to number of child in order of birth. Of these reports, 339,042 were for the first child born to the mother, 264,044 for the scond child, 191,528 for the third, 134,331 for the fourth, and 95,931 for the fifth. In the remaining 216,846 cases, or 17.5 per cent of the entire number for which information upon this point was obtained, the total number of children borne by the mother was 6 or more; in 37,914 cases it was 10 or more; in 1,600 cases, 15 or more; in 56 cases, 20 or more; and in 1 case, that of a colored woman, the birth of a twenty-fifth child was reported.

The total number of children borne by the mothers who gave birth to these 1,241,722 infants in 1917, in whose cases data were available as to previous births, was 4,093,908. The reports for 1,194,621 of the births occurring in 1917 contained information as to the entire number of children borne by the mothers and still living, and gave a total of 3,443,466, or an average of very nearly 3 living children in each family in which a birth took place in 1917.

States and cities.

The following table shows, for the birth-registration area, by States and by cities having more than 100,000 population in 1910, the number of births in 1917, the percentage of excess of births over deaths, and the infant mortality rate. The figures for the white and colored elements of the population are shown separately for those areas in which colored persons constituted more than one-tenth of the total population.

Births, excess of births over deaths, and infant mortality, 1917.

Area.	Number of births.	Excess of births over deaths.	Deaths of infants un- der 1 year of age per 1,000 live births.
Registration area, total.	1, 353, 792	Per cent.	93.5
White. Colored	1,353,792 1,280,288 73,504	79.8 14.9	90.5 150.7
Registration States.			
Connecticut Indiana Kansas Kentucky Maine Maryland White Colored Massachusets Michigan Minnesota New Hampshire New Hampshire New York North Carolina White Colored Ohio Pennsylvania Rhode Island Utah Vermont Virginia White Colored Washington Wiscensin Registration cities having more than 100,000 inhabitants in 1910.	37, 481 63, 144 38, 601 61, 698 • 16, 651 33, 963 27, 519 6, 444 95, 673 89, 159 246, 919 246, 919 76, 290 52, 530 23, 440 120, 949 222, 505 15, 286 13, 650 7, 553 60, 753 41, 924 18, 829 23, 464 59, 124	80.0 58.9 87.0 88.5 42.7 44.9 60.1 3.1 68.8 89.2 128.3 59.8 124.6 158.2 73.6 60.7 195.3 38.1 92.7 132.7 132.7 132.7 132.7 132.7	93.8 85.8 77.5 87.1 93.3 119.9 100.9 9201.0 97.9 88.3 67.4 109.6 91.4 99.6 84.8 133.1 111.0 97.8 80.4 136.5 69.3 77.8
Connecticut: Bridgeport	5, 109	125.1	87.1
	5, 161	98.3	83.7
District of Columbia: Washington	7, 485	13.3	97.4
	5, 250	31.7	70.9
	2, 235	1-18.7	159.7
Indiana: Indianapolis Kentucky:	5, 955	20.0	95.2
Louisville	4,112	4.9	96.5
	3,593	25.9	85.6
	519	1-51.3	165.7
Baltimore. White. Colored. Massachusetts:	15,040	32.5	118.4
	12,645	51.2	103.4
	2,395	1 20.0	197.1
Boston Cambridge Fall River Lowell Worcester	19, 877	56.5	99. 1
	2, 763	72.1	74. 6
	3, 807	79.9	158. 9
	3, 289	69.5	140. 2
	5, 280	89.3	94. 9
Detroit	26, 298	124.1	103. 2
	3, 051	75.5	82. 6
Minneapolis	8, 675	96.6	71.5
	5, 151	89.1	73.6
New York: Albany. Buffalo. New York. Rochester Syracuse.	2, 259	10.8	108, 9
	13, 487	76.3	104, 0
	141, 234	79.9	89, 0
	6, 938	69.9	84, 2
	4, 199	73.1	102, 4
Cincinnati Cleveland Columbus Dayton Toledo	7, 817	14.5	88.0
	20, 274	87.2	108.9
	4, 398	30.0	87.8
	3, 311	61.1	96.0
	5, 684	59.4	95.4

¹ Fercentage by which births fell below deaths.

Births, excess of births over deaths, and infant mortality, 1917-Continued.

Area.	Number of births.	Excess of births over deaths.	Deaths of infants un- der 1 year of age per 1,000 live births.
Pennsylvanis: Philadelphia Pittsburgh	42,788 16,543	Per cent. 44.3 55.4 46.8	108. 4 119. 9 147. 7
Scranton. Rhode Island: Providence. Virginia:	6,395	60.0	101.6
Richmond. White Colored.	3,790 2,500 1,290	29.3 59.6 1 —5.6	136.1 93.6 218.6
Washington: Seattle. Spokane. Wisconsin:	4,876 2,104	92.7 81.1	60.5 62.3
Wisconsin: Milwaukoo	11, 289	106.7	99.7

¹ Percentage by which births fell below deaths.

SALE OF INFECTED MEAT CAUSING TRICHINOSIS.

PENNSYLVANIA COURT HOLDS THAT DEALER IS NOT LIABLE WHERE NEGLIGENCE IS NOT SHOWN.

That a dealer is not liable for selling meat infected with trichinæ, and which caused illness, when there was no negligence in such sale, is the decision in a Pennsylvania case.¹

In an action to recover damages for illness resulting from eating pork infected with trichinæ, the defendant offered evidence showing that "parasites, known as trichinæ, are invisible to the naked eye and can be discovered only by microscopic inspection; that such inspection is untrustworthy and does not in all cases give assurance that the particular meat inspected and approved is free from parasites; that no system of inspection is known to science by which the presence of trichinæ can be detected with certainty in all cases; and that the only sure method of eliminating the danger is to thoroughly cook the meat at a temperature of at least 140°, whereby the harmful parasites are destroyed and the meat rendered wholesome and fit for food." Defendant also showed that "for the reasons above stated, the United States Government concluded an attempt to inspect all pork for trichinæ would result in more danger to the public than no inspection, for the reason [that] knowledge on the part of the public that an inspection had been made would lead to a false sense of security and induce consumers to omit taking proper precautions to avoid danger by thoroughly cooking."

It was shown, too, that other packing establishments made no inspection for trichine.

The court held that there had been no negligence on the part of the dealer.

SALE OF CONDENSED MILK.

UNITED STATES SUPREME COURT DECISION UNDER OHIO LAW.

An Ohio statute prohibited the sale of condensed milk unless made from pure unskimmed milk. The United States Supreme Court has decided 1 that this law prohibits the sale of an article consisting of condensed skimmed milk and a vegetable fat, although not sold as condensed milk.

DEATHS DURING WEEK ENDED JUNE 14, 1919, IN CITIES.

The table following shows the registered deaths from all causes and from pneumonia (all forms) and influenza combined in certain large cities of the United States during the week ended June 14, 1919.

The data are taken from the "Weekly Health Index," June 17, 1919, issued by the Bureau of the Census, Department of Commerce.

Registered deaths and annual death rates per 1,000 population in certain large cities of the United States, week ended June 14, 1919—Deaths from all causes, and from pneumonia (all forms) and influenza combined.

11 - 11 - 17 - 17 - 17 - 17 - 17 - 17 -	Population		Annual	Annual death	Influenza and pneu- monia (all forms).	
City.	July 1, 1918, estimated.	deaths, all causes.	rate per 1,000.	rate for preceding years.2	Number of deaths.	Annual death rate per 1,000.
Albany, N. Y Atlanta, Ga. Baltimore, Md. Birmingham, Ala. Boston, Mass. Buffalo, N. Y Cambridge, Mass. Chicago, III Cincinnati, Ohio. Columbus, Ohio. Columbus, Ohio. Dayton, Ohio Dayton, Ohio Denver, Colo. Fall River, Mass. Grand Rapids, Mich Indianapolis, Ind Kansas City, Mo. Los Angeles, Calif. Louisville, Ky Lowell, Mass. Memphis, Tenn Milwaukee, Wis. Minnapolis, Minn Nashville, Tenn	201, 782 * 669, 981 197, 670 788, 245 473, 229 111, 432 2, 596, 296 130, 655 128, 392 135, 450 290, 389 313, 785 568, 495 242, 707 109, 081 154, 759 453, 481 383, 442 119, 215	37 63 165 49 120 24 622 109 140 56 18 60 28 24 74 74 92 99 66 66 66 67 18	17.1 16.3 12.8 12.9 11.2 13.2 11.2 12.5 13.6 9.0 13.0 7.2 11.4 9.2 13.3 9.1 11.8 8.6 2.2 210.5 9.7	C. 19.9 C. 14.2 A. 16.1 A. 18.0 A. 15.1 C. 13.6 A. 12.4 A. 13.0 C. 15.3 C. 9.6 C. 13.2 C. 8.4 C. 10.2 C. 11.9 C. 12.4 C. 16.0 A. 12.9 C. 12.4 C. 14.6 C. 19.2 C. 19.2 C. 11.2 C. 19.2 C. 11.2 C. 11.2 C. 12.2 C. 11.2 C. 12.2 C. 12.2	13 2 0 7 6 3	1.0 .8 .5 .5 .6 .6
New Haven, Conn. New Haven, Conn. New Orleans, La. New York, N. Y. Oakland, Calif. Philadelphia, Pa.	428, 684 154, 865 382, 273 5, 215, 879 214, 206 1, 761, 371	39 130 1,131 39 400	7.5 13.1 17.7 11.3 9.5 12.1	C. 11.9 C. 15.2 A. 19.6 C. 11.6 A. 11.1		*********

Hebe Co. et al. v. Shaw, Secretary of Agriculture of Ohio, et al., 39 Sup. Ct., 125.
 "A" indicates that the rate given is the average annual death rate per 1,000 population for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates that the rate is the annual death rate per 1,000 population for the corresponding week of 1918.
 Population estimated as of July 1, 1919.
 Rate is based on statistics of 1915, 1916, and 1917.

Registered deaths and annual death rates per 1,000 population in certain large cities of the United States, week ended June 14, 1919—Deaths from all causes, and from pneumonia (all forms) and influenza combined—Continued.

	Population		Annual	Annual death	Influenza and pneu- monia (all forms).		
City.	July 1, 1918, estimated.	deaths, all causes.	death rate per 1,000.	rate for preceding years.	Number of deaths.	Annual death rate per 1,000.	
Pittsburgh, Pa. Portland, Oreg Providence, R. I. Richmond, Va. Rochester, N. Y. St. Louis, Mo. St. Paul, Minn. San Francisco, Calif. Seattle, Wash.	593, 203 263, 613 160, 719 264, 856 779, 951 257, 609 478, 530	160 53 39 45 53 186 58 150 62 22	7.7 14.6 10.4 12.4 11.7 16.3	C. 11.8 C. 9.5 C. 19.5 C. 10.8 C. 11.4 C. 8.5 C. 14.7	22 5 5 1 1 1 17 6	1.9 1.0 .3 .2	
Spokane, Wash Syracuse, N. Y. Toledo, Ohio Washington, D. C Worcester, Mass	161, 404 262, 234 401, 681 173, 650	22 35 48 86 46	11.3 9.5 11.2 13.8	C. 12.0 A. 13.6 A. 13.9 C. 13.5	9	.3 1.2	

Summary of information received by telegraph from industrial insurance companies for week ended June 14, 1919.

Policies in force	
Number of deaths	7,991
Number of deaths per 1,000 policies in force, annual rate	10.6

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

EXTRA-CANTONMENT ZONES-CASES REPORTED WEEK ENDED JUNE 21.

CAMP DIX ZONE, N. J.		CAMP GORDON ZONE, GA continued.	
No cases of communicable diseases reported.		Atlanta—Continued. Car	ses.
		Scarlet fever	
FAYETTEVILLE SANITARY DISTRICT, N. C.		Smallpox	
Ca	ases.	Tuberculosis	4
Gonorrhea	6	Typhoid fever	1
Syphilis	3	Whening cough	2
Typhoid fever	1	Whooping cough	2
Vincent's angina	1	GULFFORT HEALTH DISTRICT, MISS.	
GAS AND PLAME SCHOOL ZONE, GA. AND ALA.		Chancroid:	
Chancroid:		Pascagoula	1
Alabama	1	Dysentery:	
Museogee County	1	De Lisle	1
		Lyman	
Chicken pox: Columbus	1	Gonorrhea:	-
Gonorrhea:		Gulfport	2
Columbus	6	Long Beach	1
	5	Moss Point	1
Muscogee County	1	Pascagoula	2
Bibb City	1	Hookworm:	2
Influenza:			
Columbus	1	Gulfport	2
Malaria:	-	* Long Beach	1
Columbus	2	Malaria:	
Muscogee County	2	Biloxi	1
Girard	1	Escatawpa	4
Measles:		Fernwood	1
Columbus	1	Gulfport	14
Muscogee County	1	Helena	1
Bibb City	1	Kiln	3
Pellagra:		Kreole	1
Muscogee County	1	Lyman	2
Pneumonia:		Mississippi City	2
Muscogee County	1	Moss Point	3
Phoenix City	1	Nugent	1
Smallpox:	-	Ocean Springs	1
Columbus	1		1
Syphilis:	•	Pascagoula	
Columbus	11	Measles:	
Camp Benning	1	Moss Point	1
	-	Pascagoula	5
Girard	1	Mumps:	
Typhoid fever:		Ansley	1
Columbus	1	Biloxi	4
Whooping cough:		Gulfport	3
Muscogee County	2	Kiln	1
CAMP GORDON ZONE, GA.		Moss Point	1
Atlanta:		Pellagra:	
Chancroid	2	Gulfport	1
Chicken pox	1	Lyman	1
Gonorrhea	9	Pneumonia:	
Measles	6	Biloxi	1

(1432)

QULFFORT HEALTH DISTRICT, MISS contd.		PORTSMOUTH AND NORFOLK COUNTY HEALTH	
Scarlet fever: Cas	03.	Chicken pox: DISTRICT, VA.	303.
Scarlet fever: Cas Kiln	2	Portsmouth	2
Tuberculosis:		Norfolk	1
Biloxi	1	Diphtheria:	
Long Beach	1	Portsmouth	2
Typhoid fever:		Gonorrhea:	
Kiln	1	Norfolk County	1
Whooping cough:		Measles:	
De Lisle	1	Portsmouth	1
Gulfport	2	Norfolk	1
Hovey	1	Scarlet fever:	
Ocean Springs	5	Norfolk	2
CAMP JACKSON ZONE, S. C.		Portsmouth	1
Columbia:		Smallpox:	
Chicken pox	8	Norfolk County	3
Smallpox	1	Norfolk	2
Tuberculosis	2	Portsmouth	1
Typhoid fever	1	Tuberculosis: Norfolk County	
Whooping cough	6	Portsmouth	
Government clinic:		Typhoid fever:	1
Gonorrhea	13	Norfolk County	2
Syphilis	8	Portsmouth	
			- 3
CAMP LEE ZONE, VA.		CAMP SHERMAN ZONE, OHIO.	
Petersburg:		Government clinic:	
Gonorrhea	3	Gonorrhea	1
Gonorrheal ophthalmia	1	Syphilis	1
Tuberculosis	2	Scioto Township:	
Typhoid fever	3	Scarlet fever	1
CAMB MEDDING TONE N. I.		SOUTHER FIELD EONE, GA.	
CAMP MERRITT ZONE, N. J.		Chicken pox	1
Englewood:		Malaria (outside controlled area)	6
Chicken pox		Tuberculosis, pulmonary	1
Diphtheria	1	CAMP TRAVIS ZONE, TEX.	
NAMES AND DELIVE PORCE OF		San Antonio:	
PICRIC ACID PLANT ZONE, GA.		Chicken pox	1
Brunswick:		Diphtheria	2
Gonorrhea	4	Gonorrhea	
Pellagra	1	Influenza	1
Syphilis	2	Malaria	2
Tuberculosis	1	Measles	1
Typhoid fever	3	Tuberculosis	3
CAMP POLE ZONE N. C.		CAMP UPTON ZONE, N. Y.	
CAMP POLK ZONE, N. C.		Brook Haven:	
Chancroid:		Measles	
Durham	1	Pneumonia	1 2
Chicken pox:		Riverhead:	2
Raleigh	1	German measles	1
Gonorrhea:			A
Durham	2	WILMINGTON SANITARY DISTRICT, N. C.	
Raleigh	2	Castle-Hayne:	
Poliomyelitis:		Typhoid fever	1
Raleigh	1	Wilmington:	
Smallpox:	- 1	Diphtheria	1
Wake Forest Township	3	Gonorrhea	7
Syphilis:		Malaria	2
DurhamTuberculosis:	1	Measles	1
Raleigh	,	Mumps Pellagra	1
Typhoid fever:	1	Scarlet fover	1
Durham	1	Syphilis	1
White Oak Township	1	Tuberculosis	3
Whooping cough:	*	Typhoid fever	1
	10	Whooping cough	2
	40/	ohme conguessessessessessesses	-

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.

The following data are taken from telegraphic reports received in the office of the Surgeon General of the United States Army for the week ended June 13, 1919. Reports from the American Expeditionary Forces are delayed in transmission, and the "current week" for troops in the American Expeditionary Forces is not the same period as "current week" for troops in the United States.

	Current week.	Last weel
Annual admission rate per 1,000 (all causes). All troops in United States. Annual admission rate per 1,000 (disease only). All troops in United States. American Expeditionary Forces. Noneffective per 1,000 on day of report. All troops in United States ! American Expeditionary Forces. Annual death rate per 1,000 (all causes). All troops in United States ! American Expeditionary Forces. Annual death rate per 1,000 (disease only). All troops in United States ! American Expeditionary Forces. Annual death rate per 1,000 (disease only). All troops in United States !	645, 20 1, 284, 52 310, 45 555, 36 1, 091, 26 274, 76 31, 09 52, 53 19, 86 7, 69 11, 80 5, 54 5, 23 9, 86 2, 81	488. 800. 322. 416. 673. 281. 23. 46. 22. 7. 9. 6. 4. 8.

¹ Sick and death rates among troops in the United States will continue to be relatively high, as the numerical strength of troops in the United States continues to decline from week to week as a result of demobilization. Well men only are eligible for discharge, while the sick and otherwise disabled are retained in service for further treatment. The continued influx of sick and wounded (properly chargeable to commands overseas) is another factor tending to increase rates in the United States and to diminish correspondingly similar rates overseas.

Cases of special diseases reported during the week ended June 13, 1919.

	Pneu-	Dys-			ereal ases.			Men-	Scar-	Annual ad-	Nonef- fective
Camp.	mo- nia.	en- tery.	Ma- laria.	Total.	New infections.	enza.	Mea- sles.	ingi- tis.	s. fever. (di	mission rate per 1,000 (disease only). 515. 17 407. 94 407. 94 407. 94 408. 395. 69 395. 69 337. 11 1,119. 41 832. 10 921. 50 387. 23 1,513. 80 796. 93 114. 44 371. 14 1,179. 95 1,167. 65 1,132. 07 656. 61 513. 30 1902. 53 1,134. 36 908. 73 1,035. 32 1,035. 32	1,000 on day of report.
Benning				7	6					515. 17	19. 81
Bowie			1	8	2					407.94	33. 21
Bragg										79.14	10,65
Custer	1			6	5		1			662.86	48, 96
Devens				12		2			1	395; 69	38, 89
Dix	5			40						659, 80	62, 99
Dodge				11	2		2	1			94, 54
				13			1	-			59, 25
Gordon				25		1					35, 45
Grant.			*****	36	1				******		65, 51
Humphreys				1				*****			27, 65
Jackson				34		*****	*****	*****	*****		98, 28
Kearny				0.2			1				178, 60
Henry Knox	******	*****	*****	2		*****	1	*****	*****		4, 73
	-			23					00000		15, 81
				8	3	00000					137, 72
Lewis				12	7	*****					77, 96
		*****		13	2						
Pike			1	13	2		2				135. 26
Shelby			2								54.48
Sherman				21							95.05
Taylor				1					*****		94.36
Travis				5	5						83. 22
Upton	2		*****	20	2	*****	*****		*****		82.43
Holabird				2	1						9.70
Northeastern Department.	1			7	3	5	1.				29.98
Eastern Department				9	4						17.98
Southeastern Department.			1	8	1					648.52	25. 51
Central Department	1			5						608.58	24. 05
Southern Department		1	2	37	5	20				999.51	74.64
Western Department				21	13					560.11	11.81
				11			1			762.71	42.90
Port of embarkation:											
Hoboken	7			22		3	-5	1	1	3,129.38	85, 75
Newport News				71	10	64				3, 260, 74	70.51

Cases of special diseases reported during the week ended June 13, 1919-Continued.

	Pneu-	Dys-			Venereal diseases.		16	Men-	Scar-		tective
Camp.	mo- nia.	en- tery.	Ma- laria.		New infec- tions.	enza.	Mea- sles.	ingi- tis.	let fever.	mission rate per 1,000	l,000 on day of report.
Fort Monroe				3							20. 53
racks Leavenworth disciplinary										.,,,,,,	17.80
barracks											43.16
Columbus Barracks				3	1 2						30.03 15.30
Jefferson Barracks Fort Logan.					9	******			- 1		45, 91
Fort McDowell				8	0						38.06
Fort Sill.					1						21. 29
Fort Slocum					1					920.35	29, 27
Fort Thomas				3	1					840.79	41.04
West Point				2							12.93
Arsenals. Miscellaneous small sta-				5						604.65	31.67
tions				8	4					541.04	25.63
Total	39	1	8	547	98	96	14	2	3	1,091.26	52. 53

Number of deaths at large camps in United States, week ended June 13, 1919.

Camp.		Deaths,				Deaths.		
	Strength.	All causes.	Disease only.	Camp.	Strength.	All causes.	Disease only,	
Benning	1,615	0		Sherman	8,553	1	1	
Bowie	3,824	0		Taylor	6,991	Ô		
Bragg	657	0		Travis	2,247	0		
Custer	2,981	0		Upton	10,364	0		
Devens	13,016	4	0	Northeastern Depart-	10,001			
Dix	17,894	0		ment	2,801	0		
Dodge	5,553	3	- 3	Eastern Department	11,295	0		
Funston	4,320	0		Southeastern Depart-	11,200			
Gordon	4,062	0		ment	3,528	1	1	
Grant	8,013	1	1	Central Department	3,076	0		
Humphreys	1,880	0		Southern Department	29,035	4	1	
Jackson	4,019	0		Western Department	8,634	1	ī	
Kearny	1,566	1	0	Aviation camps	14,597	0.		
Henry Knox	9,087	1	1	Port of embarkation:	.,,			
Lee	9,107	1	1	Hoboken	35, 468	16	16	
Lewis	3,173	1	1	Newport News	26,569	0		
Meade	7,927	3	1	All others	79, 464	41	38	
Pike	3,445	0			-			
Holabird	515	0		Total	347,977	79	66	
Shelby	2,698	0						

Annual admission rate per 1,000 for certain diseases.

Disease.	Troops in United States.		American Expedi- tionary Forces.	
Discase,	Current week.	Last week.	Current week.	Last week.
Pneumonia Dysentery Malaria	5. 82 . 14 1. 19	10. 20 . 00 . 80	4. 52 . 15 . 39	3.50 .28 .77
Vencreal Paratyphoid Typhoid	81.75 .00 .59	69. 18 . 00 . 00	57. 48 . 07 . 00	57. 30 . 00 . 28
Measles	2.09 .29 .44 14.34	. 67 . 26 1. 61 16. 11	1.56 .54 .39	1. 19 . 84 . 35

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended June 21, 1919.

Alabama.—State totals: Typhoid fever 9, malaria 21, smallpox 11, measles 8, scarlet fever 5, diphtheria 2, pulmonary tuberculosis 24, infantile paralysis 5, chicken pox 8, venereal diseases 77.

Arkansas.—Malaria 119, tuberculosis 32, pellagra 22, chicken pox 17, whooping cough 11, dysentery 15 cases and 4 deaths, typhoid fever 6, influenza 4, smallpox 3, scarlet fever 2, trachoma 1.

California.—Smallpox: Cases reported 27, of which in Fresno County 6, Stockton 7, San Francisco 8, San Jose 4, Eureka 1, Oakland 1. Typhoid fever: Cases reported 15, scattered over the State. Epidemic cerebrospinal meningitis: Anaheim 1, Sacramento 1. Influenza, cases reported 37.

Connecticut.-State totals: Poliomyelitis, New Milford 1.

Delaware.—Diphtheria: Smyrna 1, Wilmington 2. Measles: Wilmington 1. Scabies: Middletown 1. Tuberculosis: Dover 1, Wilmington 3. Chancroid: Dover 1, Wilmington 3. Gonorrhea: Dover 1, Millsboro 2, Selbyville 1, Wilmington 13. Syphilis: Milford 1, Wilmington 1.

Florida.—State totals: Typhoid fever 19, malaria 16, smallpox 1, scarlet fever 4, diphtheria 2, dysentery 7.

Georgia.—State totals: Hookworm 1, cerebrospinal meningitis 1, chicken pox 6, diphtheria 4, dysentery (amebic) 2, dysentery (bacillary) 27, gonorrhea 38, malaria 34, measles 16, mumps 21, pneumonia (acute lobar) 8, scarlet fever 6, septic sore throat 3, smallpox 26, syphilis 16, tuberculosis (pulmonary) 17, typhoid fever 40, whooping cough 17.

Illinois.—Diphtheria: Cases reported 96, of which in Chicago 65, Galesburg 3, East Moline 3. Scarlet fever: Cases reported 49, of which in Chicago 40. Smallpox: Cases reported 86, of which in Sullivan 15, Peoria 12, Sawyerville 6, Witt 5, Indian Creek Township (White County) 5, White Hall 4, Galesburg 4, Rockford 4, Granite City 3. Poliomyelitis, 2 cases reported from Chicago. Lethargic encephalitis, 1 case reported from Jersey Township (Jersey County). Gonorrhea 113, syphilis 42.

Indiana.—Reports follow by counties: Scarlet fever: Elkhart and St. Joseph. Diphtheria: Johnson 3, Hendricks 1, White 1, Grant 1, Kosciusko 1, and Montgomery 1. Syphilis 33, gonorrhea 53, chancroid 1.

Iowa.—Chancroid: Council Bluffs 1. Chicken pox: Davenport 7. Diphtheria: Barnes City 1, Brooklyn 1, Cedar Rapids 1, Council Bluffs 1, Davenport 4, Des Moines 2, Dubuque 1, Ireton 2, Mason City 1. Gonorrhea: Boone 4, Brooklyn 1, Cedar Rapids 1, Charter Oak 1, Clear Lake 1, Council Bluffs 8, Davenport 8, Decorah 1, Dubuque 3, Fayette 1, Greene 2, Guthrie Center 1, Iowa City 1, Lytton

1, Manchester 1, Mason City 1, Muscatine 1, Nichols 1, Norway 1, Sac City 2, Shenandoah 1, Webster City 1. Measles: Council Bluffs 4. Scarlet fever: Bellevue 1, Cedar Rapids 1, Des Moines 1. Smallpox: Boone 11, Cedar Rapids 6, Cedar Falls 1, Davenport 7, Des Moines 4, Hazleton 1, Oskaloosa 3, Portsmouth 1, Searsboro 1. Syphilis: Brooklyn 2, Buffalo 1, Cedar Rapids 1, Council Bluffs 7, Davenport 5, Decorah 1, Dubuque 1. Whooping cough: Council Bluffs 1. In rural districts of the following counties: Diphtheria: Benton 1, Buena Vista 1, Keokuk 2. Scarlet fever: Crawford 1, Franklin 1, Lee 1, Webster 1, Winnebago 1, Winneshiek 1. Smallpox: Marshall 1, Pottawatamie 3.

Kansas.—St. Francis reports 1 case meningitis. State totals: Smallpox 97, diphtheria 15, scarlet fever 42, influenza 18.

Louisiana.—Poliomyelitis 1, encephalitis 1, typhoid fever 69 (41 delayed reports), smallpox 5, pellagra 11, leprosy 1, gonorrhea 133,

syphilis 75, chancroid 14.

Maine.—Chancroid: Rumford 1. Chicken pox: Portland 2. Diphtheria: Bristol 2, Fairfield 1, Van Buren 1, Winslow 1, Bucksport 1. Gonorrhea, 34. Measles: Portland 1. Scarlet fever: Rockland 2, Forest City 2, Winslow 3, Portland 8. Smallpox: Van Buren 3, Columbia Falls 2, Topsham 1. Syphilis: 25. Tuberculosis: 12. Typhoid fever: Belfast 2, Portland 1, Van Buren 1, Fairfield 1, Augusta 1. Whooping cough: Freeport 4.

Massachusetts.—Unusual prevalence of whooping cough, Salisbury

reporting 29 cases and Pittsfield 26 cases.

Minnesota.—Smallpox (new foci): Becker County (Detroit Township) 1, Kanabec County (Kanabec Township) 11, Ramsey County (New Canada Township) 8. Syphilis 56, genorrhea 67, chancroid 4.

New Jersey.—Cases reported: Influenza 4, pneumonia 41. Small-pox reported from Willingboro Township (Burlington County) and Camden city (Camden County). No unusual prevalence of other

diseases reported.

New York.—State reports exclusive of New York City: Typhoid fever 29, measles 310, scarlet fever 72, whooping cough 59, diphtheria 185, smallpox 5, of which in Oswego town 2, Oneonta 1, Spencer 2; cerebrospinal meningitis 4, of which in Frankfort 1, Glen Cove 1, Roseton 1, Bedford 1; poliomyelitis, 1 case in Auburn; pneumonia 33. Voluntary reports: Syphilis 177, gonorrhea 29.

North Carolina.—State totals: Whooping cough 155, measles 104, diphtheria 16, scarlet fever 4, septic sore throat 2, smallpox 31, chicken pox 20, infantile paralysis 1, typhoid fever 105, epidemic meningitis 1, lobar pneumonia 3, cholera infantum 23, bacillary dysentery 8, paratyphoid fever 1, gonorrhea 118, syphilis 60, gonorrhea and syphilis 4, chancroid 3, syphilis and chancroid 2, gonorrhea and chancroid 2, balanitis 1.

Ohio.—Scarlet fever, additional cases: Cincinnati 21, Lima 42; new cases, Columbus 23. Smallpox, additional cases: Youngstown 17, Hamilton 8, Avon 7, Yellow Springs 14; new cases, Girard (Trumbull County) 8, Toronto (Jefferson County) 4. Diphtheria: Columbus 10 cases; additional cases from Cincinnati, 12.

Oregon.—Influenza: Portland reports 1 case and Hood River 4

cases.

Vermont.—No unusual prevalence or outbreak.

Virginia.—Smallpox: Norfolk 3, Rockbridge 1. Cerebrospinal meningitis: Norfolk 1.

Washington.—Unusual prevalence of contagious diseases reported. Smallpox: Seattle 16, Yakima 12. Scarlet fever: Seattle 14, Spokane 18, Othello 3.

West Virginia.—Diphtheria: Charleston 2, Elkins 1, Montgomery 1, New Martinsville 1. Measles: Beckley 2, Charleston 3, Charlestown 1, Fairmont 8, Keyser 1, Martinsburg 1, Morgantown 1, Sutton 1, Weston 7, Wheeling 1. Scarlet fever: Bluefield 2, Charleston 2, Fairmont 4, Martinsburg 4, Parkersburg 2, Wellsburg 1. Smallpox: Beckley 1, Bluefield 2, Charleston 1, Clarkesburg 1, Grafton 1, Wellsburg 3, Weston 10, Williamson 1. Typhoid fever: Charleston 1, Fairmont 1, Hinton 1, Morgantown 2, Wellsburg 1, Weston 1, Wheeling 1.

CEREBROSPINAL MENINGITIS.

State Reports for April and May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Connecticut (May): Fairfield County— Norwalk Hartford County— Hartford. New Haven County— New Haven. Waterbury.	1 6	New York (April): Albany County— Albany. Cheming County— Elmira. Eric County— Buffalo. Lackawanna Herkimer County—	1
Total	10	Newport	1
Illinois (May); Cook County— Chicago. Kane County— Batavia.		Nassau County— Hempstead (town) Hempstead. Orange County— Newburgh Suffolk County—	2
Total	18	Islip (town). Westchester County— Dobbs Ferry	
Louisiana (May): Madison Parish. Orleans Parish. Vermilion Parish.	1	Tarrytown. North Tarrytown New York City.	1 2 43
Total	3		00
New Jersey (May): Cumberland County Essex County Mercer County	8	New York (May): Chautauqua County— Jamestown. Erie County— Buffalo. Lackawanna	1
Middlesex County	1 1	Oneida County— Utica. Orange County— Middletown.	2
Total	16	Rensselaer County— Troy.	

CEREBROSPINAL MENINGITIS—Continued.

State Reports for April and May, 1919-Continued.

Place.	New cases reported.	Place.	New cases reported.
New York (May)—Continued. Westchester County— White Plains. New York City.	1 48	Wisconsin (May): Adams County Columbia County Milwaukee County	2 1 8
Total	56	Shawano County	i
West Virginia (May): Preston County	1	Total	13

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md Boston, Mass Bridgeport, Conn.	1	1 2 1	Kansas City, Mo Leominster, Mass Lincoln, Nebr	1	
Chicago, Ili	3		Malden, Mass. Milwaukee, Wis. Newark, N. J. Newport News, Va.	1 2	
Eigin, 111	1	1	New York, N. Y Philadelphia, Pa St. Louis, Mo	7 1	
Fresno, Calif		1	Salem, Mass		
ronwood, Mich	1		Yonkers, N. Y		

CHANCROID.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas	es.	Cases.
A CONTRACTOR OF THE CONTRACTOR		Gulfport health district, Miss

DIPHTHERIA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case	35.	Case3.	
Camp Merritt zone, N. J	1	Camp Travis zone, Tex	2
Portsmouth and Norfolk County health dis-		Wilmington sanitary district, N. C	1
trict, Va	2		

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

GONORRHEA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Car	ses.	Cas	es.
Fayetteville sanitary district, N. C	6	Camp Polk zone, N. C	4
Gas and Flame school zone, Ga. and Ala	12	Portsmouth and Norfolk County health dis-	
Camp Gordon zone, Ga	9	trict, Va	1
Gulfport health district, Miss	6	Camp Sherman zone, Ohio	1
Camp Jackson zone, S. C	13	Camp Travis zone, Tex	12
Camp Lee zone, Va	3	Wilmington sanitary district, N. C	7
Pierie Aeid plant zone, Ga	4		

INFLUENZA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

LEPROSY.

San Francisco, Calif., Week Ended June 7, 1919.

During the week ended June 7, 1919, one death from leprosy was reported in San Francisco, Calif.

LETHARGIC ENCEPHALITIS.

State Reports for May, 1919.

Place.	New cases reported.	Piace.	New cases reported.
Illinois: Cook County— Chicago. Du Page— Bloomingdale. Fayette County— Ramsey. Johnson County— Tunnel Hill township. Bath township. Ogle County— Oregon.	1 1 1 1 1	Illinois—Continued, Sangamon County— Springfield. Wayne County— Fairfield Total. Louisiana Rhode Island.	8

MALARIA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas	es.	Case	3.
		Camp Travis zone, Tex	
Gulfport health district, Miss	35	Wilmington sanitary district, N. C	2

State Reports for May, 1919.

Place.	New cases reported.	Place,	New cases reported.
Florida: Alachua County Bay County Columbia County Duval County Jacksonville Escambia County Franklin County Franklin County Hillsboro County Tannpa Holmes County Levy County Marion County Sumare County Sumare County Sumare County Taylor County Volusia County	1 1 1 2 2 3 5 9 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Louislana—Continued, Calcasieu Parish Concordia Parish DeSoto Parish Grant Parish Grant Parish Iberville Parish Jefferson Parish Lafayette Parish Morehouse Parish Orleans Parish Pointe Coupee Parish St. Charles Parish St. James Parish St. James Parish St. James Parish St. Tammany Parish St. Tammany Parish Vermilion Parish Vermilion Parish Washington Parish	11 11 11 11 11 11 11 11 11 11 11 11 11
Total	38	Total	76
Illinois: Perry County— Duquoin Louisiana: Acadia Parish. Allen Parish Ascension Farish Assumption Parish Bienville Parish	2	New Jersey: Bergen County Essex County Mercer County Passaic County Somerset County Total	2 2 4 3

MALARIA-Continued.

City Reports for Week Ended June 7, 1919.

Place,	Cases.	Deaths.	Place,	Cases,	Deaths,
Birmingham, Ala Dedham, Mass Detroit, Mich Houston, Tex	5 1		Newark, N. J	1 3 2	
Little Rock, ArkLong Beach, CalifLong Branch, N. J	3 1 1		Tuscaloosa, Ala	1	

MEASLES.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas	es.	Cases.
Gas and flame school zone, Ga. and Ala Camp Gordon zone, Ga Gulfport health district, Miss Portsmouth and Norfolk County health dis- trict, Va		Camp Travis zone, Tex

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

PELLAGRA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cases.	Cases.
Gas and Flame school zone, Ga. and Ala 1	Pierie Acid plant zone, Ga 1
Gulfport health district, Miss 2	Wilmington sanitary district, N. C 1

State Reports for May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Florida: Escambia County Franklin County Gadsden County Manatee County Putnam County Seminole County Walton County	1 2 2 4 1 1 3	Louisiana—Continued. Morehouse Parish. Natchitoches Parish. Richland Parish. St. John the Baptist Parish Total. Rhode Island: Pawtucket.	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total	14	Pawtucket	1
Louisiana: Bienville Parish. Cadde Parish. Claiborne Parish	1	West Virginia: Lewis County Mingo County	2
De Soto ParishLa Salle Parish	1	Total	3

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga. Birmingham, Ala. Charleston, S. C. Charlotte, N. C. Colorado Springs, Colo. Danvers, Mass.		4 2 2 2 2	Fort Worth, Tex. Little Rock, Ark. Pasadena, Calif. Portsmouth, Va. Richmond, Va. Riverside, Calif.	1 1 1	1

PNEUMONIA.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cases. [Cases.
Gas and Flame school zone, Ga. and Ala 2 Gulfnort health district, Miss 1	Camp Upton zone, N. Y 2

City Reports for Week Ended June 7, 1919.

Place.	bar.	All forms.			Lobar.		All	orms.	
	Deaths.	Cases.	Deaths.	Place.	Cases.	Deaths.	Cases.	Deaths.	
Akron, Ohio. Anniston, Ala. Appieton, Wis. Atlanta, Ga. Baltimore, Md. Bellaire, Ohio. Belleville, N. J. Beston, Mass. Cambridge, Mass. Camden, N. J. Chicago, Ill. Cleveland, Ohio. Columbus, Ga. Corpus Christi, Tex. Dayton, Ohio. Delloville, M. J. Beston, Mass. Fichlung, Mass. Limira, N. Y. Fall River, Mass. Hackensack, N. J. Hoquiam, Wash. Jamestown, N. Y. Lackawanna, N. Y. Little Rock, Ark. Los Angeles, Calif. Louisville, Ky. Louvell, Mass.	3 2 1 9 9 1 1 1 1 1 1 1 1 3 3 4 4 4 2 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 2 8 1 3 10	162 7	1	Lynn, Mass. Manchester, N. H. Morgantown, W. Va. Mount Vernon, N. Y. Natick, Mass. Newark, N. J. New Bedford, Mass. Newburgh, N. Y. Newburgh, N. Y. Newburgh, N. Y. Newburgh, N. Y. Newburgh, Mass. New Orleans, La Newport, Ky. New York, N. Y. North Adams, Mass. Northampton, Mass. Northampton, Mass. Northampton, Mass. Northampton, Mass. Philadelphia, Pa Pittsfield, Mass. Pontiac, Mich. Rochester, N. Y. Rome, N. Y. San Antonio, Tex. Sandusky, Ohio. San Francisco, Calif. Saugus, Mass. San Francisco, Calif. Saugus, Mass. Springfield, Mass. Trenton, N. J. Waco, Tex. Winston-Salem, N. C. Worcester, Mass.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 2 1 1 3 3 1 1 29 1 1 2 2 5 5	19	122

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for April and May, 1919.

Place.	New cases reported.	Place.	New cases reported.
Florida (May): Pensacola	1 12 1	New Jersey (May): Bergen County Hudson County Morris County Total.	1 1 1
Total Louisiana (May): Richland Parish St. Landry Parish	13 1 1	New York (April): Broome County— Union (town). Dutchess County— Poughkeepsie (town).	1
Total Michigan (May): Berrien County— Sodus Township Three Oaks Township	1 1	Herkimer County— Herkimer Structure Herkimer Westchester County— North Tarrytown New York City	1
Total	2	Total	6

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

State Reports for April and May, 1919-Continued.

Place.	New cases reported.	Place.	New cases reported.
New York (May): Dutchess County— Poughkeepsie. Orange County— Middletown. Schenectady County— Princetown (town). Suffolk County— Brookhaven (town). New York City. Total. Rhode Island (May): East Providence.	1 1 1 1 3 7	West Virginia (May): Logan County. Wood County. Wyoming County. Total Wisconsin (May): Kenosha County. Milwaukee County. Total.	2 3 4 9

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Bluefield, W. Va	1	1	New Orleans, La Washington, Pa	1 1	

RABIES IN ANIMALS.

La Crosse, Wis., Lawrence, Kans., Rochester, N. Y.

During the week ended June 7, 1919, cases of rabies in animals were reported as follows: La Crosse, Wis., 1; Lawrence, Kans., 2; Rochester, N. Y., 1.

SCARLET FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cas	es.	Cases.	
Camp Gordon zone, Ga	2	Camp Sherman zone, Ohio	

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

SMALLPOX.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case	es.	Cases	L
Gas and Flame school zone, Ga. and Ala	1	Camp Polk zone, N. C	3
Camp Gordon zone, Ga	9	Portsmouth and Norfolk County health dis-	
Camp Jackson zone, S. C	1	trict, Va 4	å

SMALLPOX—Continued.

State Reports for April and May, 1919-Vaccination Histories.

			Vaccination history of cases.					
Place.	New cases reported.		Number vaccinated within 7 years pre- ceding attack.	nated more		Vaccination history not obtained o uncertain.		
Florida (May):								
Duval County	2 2				2	*********		
Escambia County	1				1			
Hillsboro County					î			
Tampa	1							
Marion County	3	*********	**********	-	2	***********		
Total	10		********	1	. 6			
dichigan (May): Isabella County—								
Broomfield Township	4				2			
Coe Township	9				9			
Deerfield Township	6 2				6 2			
Nottawa Township Rolland Township	8				8			
Sherman Township	2				2			
Vernon Township	ī				ī			
Jackson County—								
Jackson	4	*********			3			
Kalamazoo Township	8		4		4			
Kalamazoo	11			*********	11			
Richland Township Kent County—	2				3 2	*********		
Grand Rapids	6				6			
Keweenaw County— Allonez Township	50		1	14	35			
Lapeer County— Elba Township	1				1			
Lenawee County— Fairfield Township	3			1	2			
Palmyra Township Tecumseh Township	2				. 2			
Marguette County—	1				1	**********		
Marquette Midland County—	2	*********		*******	2			
Lee Township	1				1			
Monroe	2	*******			2			
Muskegon Heights Oakland County—	2				1	1		
PontiacOttawa County—	3				3			
Georgetown Township	4		3		1			
Van Buren County— Covert Township	1			1				
Baginaw County— Saginaw	3		Later Control	1				
Tittabawassee Township	î				1			
Allegan County— Plainwell.	3			1	2			
Antrim County— Mancelona	1				1			
Barry County-	2	-			. 2			
Assyria Township Barry Township	1				1			
Calhoun County—			***********					
Battle Creek	15			2	13			
Garfield Township Summerfield Township Clinton County—	1		**********		1			
Bath Township Dewitt Township	8			1 2	7 2			
Eaton County—	*	*********		2	-			
Benton Township	2				2			
Delta Township	4			1	3			
Grand Ledge	5	*********			5			
Potterville Windsor Township	1			1	3			

SMALLPOX-Continued.

State Reports for April and May, 1919-Vaccination Histories-Continued.

			Vaccination history of cases.					
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vacci- nated more than 7 years preceding attack.	Number never suc- cessfully vaccinated.	Vaccination history not obtained or uncertain.		
Michigan (May)—Continued.								
Genesee County— Flint	4		**********		4			
Gogebic County— Bessemer Township	3				2	1		
Gratiot County— Alma	8			-	8 6			
Ithaca Houghton County— Adams Township	6				6			
Houghton	3							
Houghton Portage Township	i				1			
South Kange	16		6	1	9			
Ingham County— Delhi Township	1				1			
Lansing Meridian Township	60		1		58	1		
Meridian Township	4			1	4			
Stockbridge	1				1			
Byron	1				1			
Laingsburg New Haven Township	6		1		5			
New Haven Township	1				1			
Perry	1	********	********	*********	1	***********		
St. Clair County—	1		1		1			
Mussey Township Washtenaw County— Ann Arbor	2				2			
Wayne County—	19		1		15	8		
Highland Park	1		1					
Tetal	339	*******	19	28	280	12		
New Jersey (May): Atlantic County								
Atlantic County	1				1			
Burlington County	17			3	14			
Camden County	3 6			1	3 5			
Essex County	1		*********		1			

Total	28			4	24			
New York (April): Delaware County—								
Franklin (town)	1				1			
Buffalo	3					3		
Amherst (town) North Collins (town)	.1				1			
MODIO COURLY—	12	********	*********	1	11			
Rochester Otsego County— Schenevus	1		**********	**********	1	***********		
New York City	8					Я		
Total	27			1	15	11		
New York (May): Chemung County— Elmira Heights	1				1			
Erie County— North Collins (town) North Collins	11			1	9	1		
	3			1	2	**********		
Niagara County— Niagara Falls.	1				1			

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SMALLPOX-Continued.

State Reports for April and May, 1919-Vaccination Histories-Continued.

			1	accination h	istory of cas	es.
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vacci- nated more than 7 years preceding attack.	Number never suc- cessfully vaccinated	obtained o
New York (May)-Continued.						
Otsego County-						
Oneonta	1	********	1			
Maryland	5				5	
Schenevus	2				2	
Rockland County—						1
Orangetown (town) Tioga County—	1		*********	1		
Spencer (town)	1				1	
New York City	1					
Total	28		1	3	22	
* COMMERCE CONTRACTOR	20	********		- 0	40	
Visconsin (May):						
Adams County	1				1	
Ashland County	il					
Barron County	16		6	5	4	
Brown County	200		0	4	,	
Chippetta County						
Chippewa County	14		1	***********	9	1
Clark County			2	2	6	
Columbia County	2				1	
Dane County	6		4		2	*********
Douglas County	14		6	4	4	
Eau Claire County	4 1					4
Fond du Lac County	6					
Grant County	2		2			
Green County	4				4	
Green Lake County	8		2	3	3	
Jefferson County	2					5
Kenosha County	2					
La Crosse County	2				2	
Manitowoe County	6				6	**********
Marinette County	11			9	9	
Milwaukee County.	58			-	3	55
	38				9	90
Monroe County	4		1			
Outagamie County			1			3
Portage County	5				3	2
Price County	3 .				2	1
Racine County	33		33			
Rock County	2				2	
Taylor County	14					14
Waukesha County	1 .				1	
Waupaea County	9 1				- 0	
Winnebago County	62		13	15	10	24
	4		13	20	4	21
Wood County						

State Reports for May, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Illinois: Adams County— Lima Township. Alexander County— Tamms. Bond County— Burges Township. Cass County— Beardstown. Champaign County— Champaign County— Champaign Township. Sadoms Township. Urbana	1 4 1 1 5 1		Illinois—Continued. Cook County— Chicago Chicago Heights Dupage County— York Township Fayette County— Avena Township Hurricane Township. Fulton County— Canton Township Greene County— Walkerville Township.	10 2 3 6 2 1 4	
Urbana Township Christian County— Stonington	1		Hamilton County— McLeansboro	21	

SMALLPOX—Continued.

State Reports for May, 1919-Continued.

Place.	Cases.	Deaths.	Place.	Cases,	Deaths.
Illinois—Continued,			Illinois—Continued.		
Henry County-			Stephenson County—		
Kewanee	1		Freeport	1	
Kane County—		1	Rock City Tazewell County— East Pecria	i	
Aurora Dundee Township	11		Tazewell County-	-	
Dundee Township	2		East Pecria	5	
Elgin.	1		Groveland Township.	3	
Elgin	i		Pekin.	35	
Knox County—			Union County-	99	
East Galesburg	1		Cobden	6	
Galesburg	32		Cobden Precinct	3	innoconous.
	10		Vor silion County	43	********
La Salle County— Cedar Point	10	*******	Vertailion County—	2	
Cedar Point	15	1	Catlin Township Danville Township	3	
Mendota	3		Panvine Township		
Lee County—	0	********	Fairmount	11	
Amboy	3		Vance Township	1	
Amboy Amboy Township Dixon			Warren County—		i
Amboy Township	3	*******	Monmouth	1	
Dixon	1		Washington County— Du Bois Township		
Sublette Township	- 4		Du Bois Township	4	
Livingston County— Fairbury			White County-		
Fairbury	2	********	Indian Creek Town-		
Logan County—			ship	1	
Logan County— Elkhart Township	1		Maunie	22	
Macon County-			Maunie	22	
Decatur	2		Whiteside County—		***********
Macoupin County-	-		Erie	3	
Sawyerville	28		Sterling	3	
Madison County—	-		Will County—	0	
East Alton	12		Toliet	4	
Granita City	15		Joliet	1	********
Marion County—	10	********	Joliet Township	1	
Odin	1	1	Williamson County-	1	1
Odin		********	Johnston City		
Salem	1	********	Winnebago County-		
Mason County—			Rockport	4	********
Havana	3	********	Woodford County—		
Mason City	1		El Paso	1	********
McHenry County-			H - -		-
Woodstock	2		Total	554	
McLean County-			. =		
Bloomington	9		Louisiana:		
Menard County—			Acadia Parish	4	
Athens	2		Allen Parish	17	
Mercer County-			Ascension Parish	1	
Aledo	7		Assumption Parish	. 4	
Greene Township	1	**********	Avovelles Parish	1	
Preemption Township	4		Avoyelles Parish Beauregard Parish	2	
Seaton	4	*********	Bienville Parish	3	
Morgan County—		*********	Bossier Parish	1	********
Jackson ville	9		Caddo Parish	14	
Meredosia	3	********	Calendar Darish	10	*********
Ogle County		********	Calcasiou Parish	14	
Ogle County— Lynnville Township	4		East Baton Rouge Parish.	1	
Pochallo	-	*********	Evangeline Parish	5	
Rochelle	1	********	Iberia Parish Iberville Parish		
Peoria County—		-	Toekron Posish	2	********
Averyville	2		Jackson Parish	1	********
Hollis Township	1	********	Jefferson Parish	1	********
Kingston Mines	1		Jefferson Davis Parish	2	
Peorla	42		Lafayette Parish	2	
Pulaski County— Allin Precinct	1		Orleans Parish	20	
Allin Precinct	17	********	Rapides Parish	6	
Randolph County-			Richland Parish	3	
Percy	1		St. Martin Parish	1	
Percy Richland County—	-		St. Mary Parish	9	
Decker Township	8		Tangipahoa Parish	1	
Decker Township Noble Township	1		Vermilion Parish	4	
Rock Island County-	4		Winn Parish	2	
Coal Valley	1		** **** * OS **** * * * * * * * * * * *	-	
Coal Valley East Meline	1		Total	131	
Rock Island		********	A Utal	101	
Dural Township	71	*******	_		
Rural Township	1	********	Rhode Island:	1	
Sangamon County—			Providence	1	
Auburn Township Springfield	1		***************************************		
Springfield	1				
St. Clair County-			West Virginia:		
Belleville	1		Barbour County	1	
Lebanon	1		Boone County		

SMALLPOX-Continued.

State Reports for May, 1919-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
West Virginia—Continued, Brooke County. Fayette County. Greenbrier County. Harrison County. Lewis County. Logan County. McDowell County. Marion County. Mercer County.	5 33 3 6 7 5 14 24 22 79 20		West Virginin—Continued. Ohio County. Preston County. Raleigh County Roane County. Summers County. Taylor County. Upshur County. Wayne County Wood County Wyoming County	3 33 5 11 3 1 16 4 5	
Mingo County Monongalia County	28		Total	327	
Monroe County	9				

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths
Aberdeen, Wash	1		Los Angeles, Calif.	2	
Abilene Tex	2		Louisville, Ky	î	
Abilene, Tex	ī		Madison, Wis	î	
Alliance, Ohio	6		Marinette, Wis	6	
Atlanta Ga	17		Marshailtown, Iowa	3	
Atlanta, Ga	1		Milwaukee, Wis.	25	
Battle Creek, Mich	i		Minneapolis, Minn	52	
Birmingbam, Ala	5		Moline, Ill	3	*******
Bluefield, W. Va	4		Morgantown, W. Va	3	
Boise, Idaho	1		Muskogee, Okla	ĭ	
Hoston, Mass	î		Newport News, Va	ā	
Boulder, Colo	4		New Orleans, La	4	
Butte, Mont	1		Norfolk, Va	4	
Cedar Rapids, Iowa	13		Norwood, Ohio	i	
hanute, Kans	. 6		Oakland, Cahf	2	
Charlotte, N. C	1		Oklahoma City, Okla	16	
heyenne, Wyo	3		Omaha, Nebr	24	
hicago, Ill	2		Parsons, Kans	3	
incinnati, Ohio	6		Pekin, Ill	11	
leveland, Ohio	11		Peoria, Ill	1	
olorado Springs, Colo	4		Pocatello, Idaho	î	********
Columbia, B. C.	4		Pontiac, Mich	3	********
Columbus, Ga	3		Portland, Oreg	47	********
onnellsville, Pa	1		Portsmouth, Ohio	2	********
council Bluffs, Iowa	i		Racine, Wis	15	
Pallas, Tex.	10			9	
Danville, Ill	1		Roanoke, Va Rockford, Ill	10	
Davenport, Iowa	15		Rock Island, Ill	12	
Denver, Colo	7			23	
Detroit, Mich	10		St. Joseph, Mo St. Louis, Mo	1	********
Duluth, Minn	6		St. Paul, Minn	11	
Ourham, N. C	1		Salem, Oreg	1	
everett, Wash	9		Salt Lake City, Utah	8	
arrell, Pa.	1		San Diego, Calif.	1	
ond du Lac, Wis	2		San Francisco, Calif	2	
	- 3		San Jose, Calif.	30	
Fort Wayne, Ind	5		Contile Work	12	*******
ramingham, Mass	1		Seattle, Wash	3	
alesburg, Ill	3		South Bend, Ind	- 1	
rand Rapids, Mich	1		Spartanburg, S. C	î	
	5		Spokane, Wash		
reat Falls, Mont			Springfield Obio	1	
Ioquiam, Wash	3		Springfield, Ohio	1 2	*******
	1		Stillwater, Milli		********
lutchinson, Kans	1		Superior, Wis Tacoma, Wash		*******
ndianapolis, Ind	4	********	Tacoma, Wash		*******
alamazoo, Mich	1	*******	Tiffin, Ohio		*******
ansas City, Kansansas City, Mo	2		Topeka, Kans	= 1	
marrille Tonn	4		Tulsa, Okla	- 1	
noxville, Tenn	2		Utica, N. Y. Walla Walla, Wash		*******
okomo, Ind	4		Washington D C	1 5	
afayette, Ind			Washington, D. C	- 1	********
exington, Ky	1	*******	Wichita, Kans	5	*******
incoln, Nebr	12	********	Winston-Salem, N. C		
ittle Rock, Ark			Yakima, Wash		
ogansport, Ind			Youngstown, Ohio	19	
ong Beach, Calif	3				

SYPHILIS.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case	35.	Cases	
Fayetteville sanitary district, N. C	3	Camp Polk zone, N. C	1
Gas and Flame school zone, Ga. and Ala	13	Camp Sherman zone, Ohio 1	1
Camp Jackson zone, S. C	8	Wilmington sanitary district, N. C 3	3
Pierie Acid plant zone. Ga	2		

TETANUS.

City Reports for Week Ended June 7, 1919.

Place.	Cases.	Denths.	Place,	Cases.	Deaths.
Baltimore, Md. Baton Rouge, La. Brunswick, Ga. Chicago, Ill.	1 1 2	1	Dedham, Mass. Detroit, Mich	1	

TUBERCULOSIS.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Cases.	Cases.
Gulfport health district, Miss 2	
Camp Jackson zone, S. C	Souther Field zone, Ga 1
Camp Lee zone, Va 2	Camp Travis zone, Tex 3
Picric Acid plant zone, Ga	Wilmington sanitary district, N. C 4

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 1452.

TYPHOID FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended June 21, 1919.

Case	18.	Cas	603.
Fayetteville sanitary district, N. C		Picric Acid plant zone, Ga	
Camp Gordon zone, Ga	1		5

State Reports for April and May, 1919.

New cases reported.	Place.	New cases reported.
1 2 3 3 3 1 1 1 1	Bradford County Citrus County Duval County Jacksonville Escambia County Pensacola Gadadon County	8 3 1
	1 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1	Connecticut (May)—Continued. New London County— New London.

TYPHOID FEVER-Continued.

State Reports for April and May, 1919-Continued.

Place.	New cases reported.	Place,	New cas reparted
lorida (May)—Continued.		Michigan (May)—Continued.	
Lafayette County	1	Berrien County—	
Madison County	1	Eau Claire	
Monroe County—		Clinton County—	
Key West	5	Dewitt Township	
Orange County	2	Victor Township	
Palm Beach County	1	Genesee County—	1
Pinellas County	1	Flint	1
Putnam County	3	Grand Traverse County—	
St. John County	2	Traverse City	
Sumter County		Ingham County-	1
Taylor County	1	Ingham Township	1
Volusia County	8	Lansing. Williamston Township	-
Total	49	Ionia County—	
inois (May):	49	Ronald Township	
Coles County—		Isabella County—	1
Mattoon	4	Nottawa Township	i
Cook County—		Kalamazoo County	
Chicago	13	Kalamazoo	1
Lake County	-	Kent County—	1
Lake Forest	1	Spencer Township	
Marion County—		Wyoming Township	
Alma	1	Muskegon County—	
Odin	1	Muskegon Heights	
Morgan County—	-	Oakland County—	
Jacksonville	2	Troy Township	
Randolph County— Baldwin	1	Ottawa County—	
Dark Island Country		Holland	
Rock Island County— Rock Island	1	Saginaw County—	
Schuyler County—		Saginaw. Washtenaw County—	
Corndon	2	Ann Arbor	
Camden Camden Township	2	AIII AIVOI	
Stephenson County—		Total	
Freeport	1	New Jersey (May):	
Vermilion County-		Atlantic County	
Danville Township	1	Bergen County	
Will County-		Burlington County	
New Lenox Township	1	Cumberland County	
Williamson County—		Essex County	
Johnston City	1	Gloucester County	
775 - 4 - 1	00	Hudson County	
Total	32	Hunterdon County	
uisiana (May):	3	Mercer County	
Allen Parish	1	Monmouth County	
Ascension Parish	1	Salem County	
Assumption Parish	3	Union County	
Bienville Parish	1	Total	
Caddo Parish	2	New York (April):	- 4
Calcasieu Parish	2	Albany County—	
Catahoula Parish	2	Albany	
East Baton Rouge Parish	9	Albany Alleghany County—	
East Baton Rouge Parish East Feliciana Parish	2 2 2 9	Hume (village)	
Franklin Parish	1	Wellsville (town)	
Iberia Parish	1	Broome County—	
Iberville Pacish	2	Maine (town)	
Lafayette Parish	1	Cattaraugus County—	
Lafourche Parish	1	Olean	
Lincoln Parish	2	Ischua (town)	
Livingston Parish	1	Chautauqua County—	
Madison Parish	1	Ellington (town)	
Orleans Parish	12	Chemung County—	
Pointe Coupce Parish	2	Southport (town)	
St. James Parish	1	Columbia County— Greenport (town)	
St. John Parish	2	Cortland County	
St. Landry Parish	9	Taylor (town)	
St. Mary Parish	3	Dutchess County—	
Tangipahoa Parish	1	Fishkill (town)	
Vermilion Parish	8	Erie County—	
Washington Parish	1	Buffalo,	
Winn Parish	i	Essay County-	
		Keene (town)	
Total	76	Franklin County—	
higan (May):		Burke (town)	
		Saranac Lake (village)	
Barry County—			
Barry County— Nashville Bay County—	1	Malone (town) Greene County—	

TYPHOID FEVER—Continued.

State Reports for April and May, 1919-Continued.

Place.	New cases reported.	Place.	New cases reported.
New York (April)—Continued.		New York (May)—Continued.	
Herkimer County—		Ningara County—	
Herkimer (town)	1	Lockport	1
Jefferson County—	1	Oneida County— Rome	1
Watertown	1	Ontario County—	1
Wilna (town)	î	Geneva	1
Madison County—		Orange County	
Eaton (town)	1	Newburgh	1
Monroe County—	2	Oswego County— Oswego	
Rochester Montgomery County—	-	Putnam County—	
Amsterdam (town)	1	Brewster	1
Oneida County—		Rensselaer County—	
Utica	1	Troy	
Orange County—		Brunswick (town)	
Newburgh Oswego County—	1	Canton (town)	1
Oswego	1	Massena	1
Hastings (town)	2	Saratoga County—	
Central Square	1	Mechanicville	1 1
Richland (town)	2	South Glens Falls Schenectady County—	1
Rensselaer County— Troy	1	Rotterdam (town)	1
Brunswick (town)	î	Schoharie County—	
Rockland County—		Cobleskill	
Clarkstown (town)	. 1	Steuben County-	
Saratoga County— Mechanicville	1	Corning Suffolk County—	
Schoharie County—	1	Babylon	
Cobleskill (town)	1	Brookhaven (town) Central Islip State Hospital	
Cobleskill (town)	1	Central Islip State Hospital	
Steuben County—		Sullivan County— Rockland (town)	
Corning (town) Suffolk County—	1	Tompkins County—	
Brookhaven (town)	1	Ithaca	
Islip (town)	2	Westchester County-	
Wayne County—		Mamaroneck	
Sodus (town)	1	Wyoming County— Arcade (town)	
Westchester County White Plains	1	New York City	3
Yonkers.	2		
Bronxville	1	Total	9
New York City	28	Rhode Island (May):	
Total	82	Providence	
Totalew York (May):	04	West Warwick (town)	. 1
Albany County—			
Albany	2	Total	
Alleghany County—		West Virginia (May):	
Andover. Wellsville.	2 1	Barbour County	1
Broome County—		Berkeley County Brooke County	
Johnson City	1	Brooke County	
Cattaraugus County—		Calhoun County	
Franklinville	3	Doddridge County	1
Chenango County— Oxford	1	Clay County Doddridge County Hampshire County	
Clinton County—		Harrison County	
Plattsburg	1	Jackson County	
Clinton (town)	1	Kanawha County	
Dutchess County—	1	Morgan County	
Fishkill (town) Hudson River State Hospital	i	Ohio County	
Erie County—	-	Ohio County	
Buffalo	7	Putnam County	
Lackawanna	3	Upshur County	1
Tonawanda	1 1	Webster County	
Springville. Buffalo State Hospital	2	Total	37
Genesee County—			
Batavia	1	Wisconsin (May):	
Greene County—		Wisconsin (May): Green Lake County Kenosha County	
Catskill. Jefferson County—	2	Lafavette County	
Wilna (town)	4	Marathon County	1
Livingston County—		Milwaukee County	
Livingston County			
Springwater (town)	3	Winnebago County	(

TYPHOID FEVER-Continued.

City Reports for Week Ended June 7, 1919.

Place. Cas		Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.	1		Los Angeles, Calif.		
Ann Arbor, Mich.	i	***********	Louisville, Ky		*********
Atlanta, Ga.	4	********	Macon, Ga		*******
Atlantic City, N. J.	i		Malden, Mass	*********	
Baltimore, Md	1				
		2	Minneapolis, Minn	1	
Birmingham, Ala	2		Nashville, Tenn	1	
Boise, Idaho	1	********	New Orleans, La	5	
Buffalo, N. Y	1		Newport News, Va	1	
Butler, Pa	1	********	New York, N. Y	9	
Charleston, S. C	1		Norristown, Pa		
Charlotte, N. C		. 1	Pekin, Ill	1	
Chester, Pa	2		Philadelphia, Pa	9	
Chicago, Ill	3	1	Pittsburgh, Pa	2	
Chillicothe Ohio	1		Pittsfield, Mass	1	
incinnati, Ohio	1		Port Chester, N. Y	1	
leveland, Ohio	1	1	Portland, Me	i	
offeyville, Kans	i		Portland, Creg		
olumbia, S. C.	2		Pottstown, Pa		
olumbus, Ga	î		Pueblo, Colo		
		*******	Dording Po	1	
ovington, Ky	2	********	Reading, Pa	1	********
Pallas, Tex	2		Reno, Nev	6	********
edham, Mass	1	********	Richmond, Va		
etroit, Mich	7	4	Roanoke, Va	1	
ourham, N. C	2	********	Sacramento, Calif		
lmira, N. Y	1		Salt Lake City, Utah		
verett, Wash	1		Sanford, Me		1
airmont, W. Va	3		San Francisco, Calif		1
all River, Mass	1		Saratoga Springs, N. Y	1	
ort Worth, Tex	1	1	Saugus, Mass	1.	
ramingham, Mass	1		Savannah, Ga	1	
reat Falls, Mont	1		Spartanburg, S. C		
lartford, Conn	1		Spokane, Wash	i	
lighland Park, Mich	1		Steelton, Pa	1	
louston, Tex	1		Toledo, Ohio	1	
ronton, Ohio	1		Trenton N. J.	i	
ansas City, Kans.	- 1		Troy, N. Y.		
Tamasa City, Kans			Tules Oble	1	
Cansas City, Mo		3	Tulsa, Ckia	2	
Chosna, Wis	2		Tuscaloosa, Ala	1	
okomo, Ind	2		Waco, Tex	1	1
ancaster, Pa	1		Wheeling, W. Va	1	
awrence, Mass	2		Wilmington, Del	1	1
dma, Ohlo	1		Wilmington, N. C	4	
ogansport, Ind		1	Winston-Salem, N. C	4	

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. State Reports for April and May, 1919.

	Cases reported.				
State.	Diph- theria.	Measles.	Searlet fever.		
Connecticut (May). Florida (May). Illinois (May). Louisiana (May). Michigan (May). New Jorsey (May). New York (April). New York (May). Rhode Island (May). West Virginia (May). Wisconsin (May).	180 17 668 40 554 566 2,082 2,287 53 51 147	878 68 5, 204 52 830 767 2, 057 3, 037 10 417 682	19 49 2 48 51: 1, 23: 1, 21: 5: 27: 34!		

City Reports for Week Ended June 7, 1919.

I ti	Popula- tion as of July 1, 1917	Total deaths	Diphi	theria.	Meas	sles.	Scar	rlet er.	Tut	
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
berdeen, S. Dak	15, 926 14, 406 93, 604						3			
dams, Mass	14, 406	1			61		6		*****	****
dams, Masskron, Ohio	93,601	37 5	3		2	*****				
lameda, Califllentown, Pa	28, 433 65, 109				75				4	
lliance Ohio	66, 109 19, 581 23, 783 24, 250	3			2					
lliance, Ohiolton, Ill	23, 783		1		1					
ndoreen Ind	21, 250	6	1	*****	····i	*****	1		*****	
nn Arbor, Michnniston, Alasonja, Conn	15,041	13	1						2	
nniston, Ala	14, 326 16, 954 18, 005	2								
poleton Wiz	18,005	5								
rlington, Wis rlington, Mass sbury Park, N. J sheville, N. C	13,073	1					1		1	
sbury Park, N. J	14,629	5			19					
sheville, N. C	25, 656 22, 008	9					3			
Sheadha, Onio.	196, 144	60	2		11		4		2	
tlanta, Gatlantic City, N. J	50.515	5	1		6		1		6	
uburn, N. Yustin, Tex	19, 776 37, 823 35, 612	2					1		1	0000
uburn, N. Y	37, 823	9					2			
ustin, Tex	35, 612	9					-			
akersfield, Califaltimore, Md	17, 543 594, 637	220	21	2	24		112	1	25	
arre Vt	12, 401	4							*****	
arre, Vt. aton Rouge, La. attle Creek, Mich ayonne, N. J.	12, 401 17, 544	4			3				2	
attle Creek, Mich	30, 159		3		20				7	
ayonne, N. J	72, 204	3	4		2		1			
eatrice, Nebr	10, 437	7	*****	*****	*****					
	28, 851 13, 749				1		1			
eaver Falls, Paedford, Ind	10,613						1		*****	
dellaire, Ohio	14,575 12,797	6			*****			*****		
Belleville, N. J	12,797		4	*****	3		1	*****	2	***
clost, Wis	18,547 11,099	5	1	*****	2		2			
enton Harbor, Mich	60, 487	10	3	1						
erkeley, Califerlin, N. H	13,892	3							*****	
ethlehem, Pa	14, 353		4		48			*****	*****	
everly, Mass	22, 128	8	*****	*****	*****					***
ddeford, Me	17, 760 15, 123	6 4	i		1		3			
illings, Mont	54, 864	23	i				3		1	
ariningnam, Am.	54, 864 189, 716	64			10	*****	3 2	1	5	
loise, Idaho	25 051	9	51	2	34	******	48		54	
oston, Mass	767,813	232	91	-	9.4		1			
loulder, Colo	767, 813 12, 012 22, 060	*******			1		1		2	
Braddock, Pa	1 14, 544				2					
PEREII, IHU	10 472	2		1	2 2	*****	2	1	*****	
Bridgeport, Conn	124, 724 16, 318 69, 152	26	3	1	2		2	1	*****	
Bristol, Conn	60 152	1 6	1	*****	*****		3		1	
Brockton, MassBrookline, Mass		11	1		2				1	
Brunswick, Ga Buffalo, N. Y	10, 984 475, 781 25, 144	2			******		25		3 28	***
Buffalo, N. Y	475, 781	142	49	4	86	*****	20	*****	1	1
Burlington, Iowa Burlington, Vt	20, 144	10	1				-			
diffington, Vt	28,677	10	1 3		1					
Butler, Pa.	44,057						1		2	
	15, 995 114, 293 108, 117	7	2		10				9	
ambridge, Mass	114, 293	34	6 3		10		3		3	
ambridge, Massanden, N. Janton, Ill	13 674	4	3	*****	*****					
onton Ohio	13,674 62,566 11,146	9			6					
ane Girardeau. Mo	11,146		. 2				1			
anton, Ohio ape Girardeau, Moarlisle, Pa cdar Rapids, Iowa	10,795				19					
edar Rapids, Iowa	38,033	******	1		2		1		*****	
	11,838	2	*****		1		2			1
hambersburg, Pa hampaign, Ill. hanute, Kans	11, 838 12, 475 15, 052	3								1
hanute. Kans.	12,968	1 2								
Charleston, S. C	61,041	23		1			1			3,

¹ Population Apr. 15, 1910.

tion as c July 1, 19 (est.mat- by U. S Comsus	Popula- tion as of July 1, 1917	Total deaths	1	theria	Me	asles.		arlet ver.	Tu	ber- losis.
	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Charleston, W. Va	31,060 40,759 48,405	2			2	*****	1			
Charlotte, N. C	40,759	10	3		8		3		2 2	
Chelsea, Mass	41,857	AA	1		2		1	*****		*****
Chevenne, Wyo	1 11, 320		1							
Cheyenne, Wyo	1 11, 320 2, 547, 201 29, 950	668	86	5	987	11	63	1	296	1
Chicopee, Mass	29,950	7	2				*****		2	1
Chicopee, Mass	15,625	120	8		40	2	45	····i	23	2
Cleveland, Ohio	414, 248 692, 259 27, 678	178	39	8	96	4	11		40	2
Clinton, Jowa	27,678		2				1			
Clinton, fowa	1 13,075	2					1			
Contosvillo Po	14,998				1	*****				
Coffeyville, Kans	18,331 25,292	7	1		1	*****	····i	*****	6	*****
Colorado Springe Colo	38, 965	7						*****	5	
Columbus, Ga	26,306	13			19		1		3	1 2
Columbus, GaColumbus, Ohio	220, 135	63			16		3		7	
Concord, N. H	22,858 15,876	7		*****			1	*****		*****
Connellsville, Pa	15,876 31,838	· · · · · · · · · · · · · · · · · · ·		*****	3	*****			2	
Covington Ky	59, 623	15	2		1		4	******	2	
Covington, Ky	26,773	8			-				1	1
Cumberland, Md	26, 686 129, 788	2	1		12		2		1	
Dallas, Tex	129, 788	46	2		2		*****		5	4
Danbury, Conn Danvers, Mass	22, 931	******	····i				2	*****	1	*****
Danville, Ill	10,037	1	1		3	*****	*****	*****	î	*****
Davennort Iowa	49, 618		î	******						
Dayton, Ohio	32, 969 49, 618 128, 939	33			16				3	2
Dedham, Mass	10, 618	1			*****				*****	*****
Denver, Colo	268, 439 619, 648 13, 276	64	9 43	1 2	22 149		52	1	25	15
Dedham, Mass	13 276	197	40	-	149	*****	32		20	1
Du Bois, Pa	14.994				1		5			
Dubuque, Iowa	40,096 97,077 21,286 26,160		2							2
Duluth, Minn	97,077	12	2		49	1			4	- 1
Durham, N.C	21, 286	6	2	*****		*****	1	*****	····i	*****
Durham, N. C East Chicago, Ind	30, 286	7	*****	*****		*****	*****	*****		
East Cleveland, Ohio	13, 864		*****		3			******		
Easton, Pa	30, 854 43, 761		1		2				1	
East Orange, N. J	43,761	8	2		2		1		3	1
Easton, Pa East Orange, N. J East Providence, R. I	18,485	******	*****	*****	11	*****	1 2			*****
ESAN CHAIFE, WIS	18,887 28,562	7	1	*****	7	*****	1			2
Elizabeth N. J.	88,830		3	1			6		6	6
Elgin, Ill. Elizabeth, N. J. Elmira, N. Y.	38, 272	12	2		2	*****				1
El Paso, Tex	69,149	37	*****				4	*****		5
Englewood, N. J	12,603 76,592	*******	4	*****	2 2	*****	2	*****	10	*****
Grie, Pa	15,142	4	4	*****	3	*****	-	*****	10	*****
	29,304	8	1		57					
Syanston, in: Syerett, Mass. Syerett, Wash airmont, W. Va ail River, Mass argo, N. Dak Farrell, Pa	40, 160	9	1				6		1	
Everett, Wash	37, 205 16, 111						7		12	
airmont, W. Va	16,111 129,828	31	4		11 44	2	1	*****	14	2
Cargo N Dak	17,872	3	1		3	-	2	******		
arrell Pa	10, 190				1					
indlay, Ohio	14,858	7			38	1				
itchburg, Mass	42,419	11	*****			*****		*****	2	1
lint, Mich	57,386	8	3		2		1 4	******		*****
ort Dodge Town	21,486	1	*****	1	*****	*****	2			
ort Scott Kans	21,039 10,564	3			2					
ort Wayne, Ind	78,014	22	3		13					
Cond du Lao, Wis	109, 597	18					1		1	
ramingham, Mass	14, 149 11, 225	7	2	*****	4	*****	3		3	*****
Frederick, Md Freeport, Ill Fremont, Ohio Fresno, Calif	11, 225 19, 844	6			5	*****	2		*****	
Fremont, Ohio	11,034	1	2		*****					
A COMMUNITY COMMUNICATION OF THE PERSON OF T	36, 314	10	-							2

¹ Population Apr. 15, 1910.

City. (estimat by U. 5. Censur Burean Galesburg, Ill. 24,6 Galewston, Tex 42,6 Geneva, N. Y. 13,9 Gloversville, N. Y. 22,3 Grand Rapids, Mich 132,8 Great Falls, Mont 132,8 Great Falls, Mont 133,9 Greenly, Colo. 11,9 Green Bay, Wis. 30,0 Greenled, Mass. 12,2 Greenboro, N. C. 20,1 Greensburg, Pa. 15,8 Greenwille, S. C. 18,5 Greenwille, S. S. Greenwille,	9 0 0 5 5 4 4 1 8 8 8 2 2 7 7 1 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 11 1 35 3 6 9 4 7	Cases	Deaths.	13 29 24	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Gloversville, N. Y. 22,3 Great Palls, Mont. 132,8 Great Palls, Mont. 113,9 Greely, Colo	4 1 8 2 2 7 7 1 1 1 1	35 3 6 9 4 7			29					
Gloversville, N. Y. 22,3 Great Palls, Mont. 132,8 Great Palls, Mont. 113,9 Greely, Colo	4 1 8 2 2 7 7 1 1 1 1	35 3 6 9 4 7		*****		*****				
Gloversville, N. Y. 22,3 Great Palls, Mont. 132,8 Great Palls, Mont. 113,9 Greely, Colo	4 1 8 2 2 7 7 1 1 1 1	35 3 6 9 4 7				*****				
Greely, Colo. 11, 9 Green Bay, Wis. 30, 0 Green Bay, Wis. 30, 0 Green Bay, Wis. 30, 0 Greenfield, Mass. 12, 2 Greenboro, N. C. 20, 1 Greensburg, Pa. 15, 8 Greenwich, Conn. 19, 3 Hackensack, N. J. 17, 4 Hancock, Mich. 12, 5 Harrison, N. J. 17, 3 Haverhill, Mass. 49, 11 Hoboken, N. J. 78, 3 Houston, Pa. 28, 9 Hibbing, Minn. 17, 5 Highland Park, Mich. 33, 8 Hoboken, N. J. 78, 3 Houston, Tex. 116, 8 Hudson, N. Y. 12, 8 Hudson, N. Y. 12, 8 Hudson, N. Y. 12, 8 Houston, Tex. 116, 8 Greenwich, Common 11, 9 Honorous 11, 9 Honorou	1 88 22 77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 4 7	1					*****		
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		5								
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alamazoo, Mieh 50, 40 ankalee, III 14, 27 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J. 24, 32 enesha, Wis. 32, 63 neoxville. Tenn 59, 11 okomo, Ind 21, 92 lekawanna, N. Y. 16, 21 okomo, Ind 22, 92 lekawanna, N. Y. 16, 21 okomo, Wis. 31, 83 lef ayette, Ind 21, 48 lekewood, Ohio 23, 81 leacaster, Ohio 16, 09 measter, Pa. 51, 43 wrenee, Kans 13, 47 wrenee, Kans 13, 47 wrenee, Mass 102, 92 banon, Pa. 20, 94 ominster, Mass 21, 36 xington, Ky. 41, 99 ma, Ohio 35 leach 102, 102 leach 103 leach 104 leac		7	2		1		6		2	
alamazoo, Mich 30, 40 ankalvec 111 14, 27 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J. 24, 32 enosha, Wis. 32, 63 noxville, Tenn 39, 11 olcomo, Ind 21, 92 ackawanna, N. Y. 16, 21 a Crosse, Wis. 31, 53 a Fayette, Ind. 21, 48 akewood, Ohio 22, 81 ancaster, Pa 51, 43 wrenee, Kans 13, 47 wrenee, Kans 13, 47 wrenee, Mass 102, 92 ebanon, Pa 20, 94 ominster, Mass 21, 36 exington, My 41, 99 ma, Ohio 32, 41 ansas 21, 36 exington, Ky 41, 99 ma, Ohio 32, 61 ansas 21, 36 exington, Ky 41, 99 ma, Ohio 32, 61 ansas 41, 42 enoch Nets		7 3	2							
alamazoo, Mich 30, 40 ankalvec 111 14, 27 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J. 24, 32 enosha, Wis. 32, 63 noxville, Tenn 39, 11 olcomo, Ind 21, 92 ackawanna, N. Y. 16, 21 a Crosse, Wis. 31, 53 a Fayette, Ind. 21, 48 akewood, Ohio 22, 81 ancaster, Pa 51, 43 wrenee, Kans 13, 47 wrenee, Kans 13, 47 wrenee, Mass 102, 92 ebanon, Pa 20, 94 ominster, Mass 21, 36 exington, My 41, 99 ma, Ohio 32, 41 ansas 21, 36 exington, Ky 41, 99 ma, Ohio 32, 61 ansas 21, 36 exington, Ky 41, 99 ma, Ohio 32, 61 ansas 41, 42 enoch Nets			27		19				18	
alamazoo, Mich 30, 40 ankalvec 111 14, 27 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J. 24, 32 enosha, Wis. 32, 63 noxville, Tenn 39, 11 olcomo, Ind 21, 92 ackawanna, N. Y. 16, 21 a Crosse, Wis. 31, 53 a Fayette, Ind. 21, 48 akewood, Ohio 22, 81 ancaster, Pa 51, 43 wrenee, Kans 13, 47 wrenee, Kans 13, 47 wrenee, Mass 102, 92 ebanon, Pa 20, 94 ominster, Mass 21, 36 exington, My 41, 99 ma, Ohio 32, 41 ansas 21, 36 exington, Ky 41, 99 ma, Ohio 32, 61 ansas 21, 36 exington, Ky 41, 99 ma, Ohio 32, 61 ansas 41, 42 enoch Nets	1	4							80	
alamazoo, Mich 30, 40 ankalvee, ill 14, 27 ansas City, Kans 102, 09 ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J. 24, 32 enosha, Wis. 32, 63 noxville, Tenn 39, 11 okomo, Ind 21, 92 ackawanna, N. Y. 16, 21 a Crosse, Wis. 31, 83 a Fayette, Ind 21, 48 akewood, Ohio 25, 81 ancaster, Pa 51, 43 awrence, Kans 13, 47 awrence, Kans 13, 47 awrence, Kans 13, 47 awrence, Mass 12, 36 awington, My 41, 99 aminster, Mass 21, 36 axington, Ky 41, 99 and, Ohio 37, 144 ancal Michael 14, 36 an			3		12					
ankalee, III 11, 27 ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J 24, 32 eurosha, Wis 32, 53 noxville, Tenn 59, 11 okomo, Ind 21, 92 sekawanna, N. Y 16, 21 a Crosse, Wis 31, 83 a Fayette, Ind 21, 48 skewood, Ohio 23, 81 sucaster, Ohio 16, 69 sucaster, Ohio 16, 69 surentee, Kans 13, 47 swrenee, Kans 13, 47 swrenee, Mass 102, 92 ebanon, Pa 20, 94 sominater, Mass 21, 36 sxington, Ky 41, 99 ma, Ohio 37, 14 speech Nebs 46, 25		5 .							3	
ansas City, Kans 102, 09 ansas City, Mo 305, 51 earny, N. J. 24, 32 enosha, Wis 32, 53 noxville, Tenn 59, 11 olomo, Ind 21, 92 ackawannas, N. Y 16, 21 a Crosse, Wis. 31, 83 a Fayette, Ind 21, 48 akewood, Ohio 22, 81 acaster, Ohio 16, 69 ancaster, Ohio 16, 69 ancaster, Chicker 13, 47 awrenee, Kans 13, 47 awrenee, Mass 102, 92 abanon, Pa 20, 94 ominster, Mass 21, 36 axington, Ky 41, 99 ma, Ohio 37, 14 ancaster, Mass 47, 14 ancaster, Mass 27, 36 axington, Ky 41, 99 and, Ohio 37, 14 ancaster, Mass 47, 14 ancaster, Mass 57, 14 ancaster, Mass 57, 14 ancaster, Mass 61, 36 axington, Ky 41, 99 and, Ohio 37, 14 ancaster, Mass 61, 36 axington, Ky 41, 99 and, Ohio 56 axington, Ky 41, 99 axington, Ky 41, 90 axi		19	1		56		2		4	
enosna, Was. 32, 83 noxville, Tenn 59, 11 okomo, Ind 21, 92 sekawanna, N. Y. 16, 21 okowanna, N. Y. 16, 21 okowanna, N. Y. 16, 21 okowanna, N. Y. 16, 22 okowanna, N. Y. 18 owningter, Mass. 12, 36 owningter, Mass. 21, 36 owningter, Mass. 31, 37 owningter, Mass. 31 owningter, Mass. 31, 37 owningter, Mass. 31 owningter, Mass. 3		8	1							
enosna, Was. 32, 83 noxville, Tenn 59, 11 okomo, Ind 21, 92 sekawanna, N. Y. 16, 21 okowanna, N. Y. 16, 21 okowanna, N. Y. 16, 21 okowanna, N. Y. 16, 22 okowanna, N. Y. 18 owningter, Mass. 12, 36 owningter, Mass. 21, 36 owningter, Mass. 31, 37 owningter, Mass. 31 owningter, Mass. 31, 37 owningter, Mass. 31 owningter, Mass. 3		74	9		15		1		3	
EBOSHB, YHS	1	3	9		0		3		2	
noxylle, Tenn. 59, 11 olsomo, Ind. 21, 92 olsomo, Ind. 21, 92 olsomo, Ind. 21, 92 olsomo, Ind. 21, 92 olsomo, Ind. 21, 93 olsomo, Ind. 21, 94 olso		7	5	1	26		7 1		2	
Okomo, Ind 21, 92, 92, 92, 92, 92, 92, 93, 94, 94, 94, 94, 94, 94, 94, 94, 94, 94			1				2		-	
Payette, Ind. 22, 48 48 48 48 49 49 49 49		6	1				3			
1 Payette, Ind. 22, 48 kewood, Ohio 23, 81 uncaster, Ohio 16, 69 uncaster, Pa. 51, 43 uvrenee, Kans 13, 47 uvrenee, Mass 102, 92 bhanon, Pa 23, 94 ominster, Mass 21, 36 xington, Ky 41, 99 ma, Ohio 37, 144 usely Nebs 46, 55		5 .			3					
kewood, Ohio. 23, 81; Macaster, Ohio. 16, 09 Macaster, Ph. 51, 43; Wrenee, Kans. 13, 47; Wrenee, Mess. 102, 92; banon, Pa. 20, 94; ominster, Mass. 21, 36; Xington, Ky. 41, 99; ma, Ohio. 37, 14; mesh. Nebs. 46, 65;		13	2						1	
xington, Ky	i	9	1		2 .					
xington, Ky		7			1 2		1		1	
xington, Ky			1		3				1	
xington, Ky		1	i		0				1	***
xington, Ky	1 :	29	3	1			4		1	
xington, Ky					8 .		2 .		2 .	
ma, Ohio		4 .			15 .					
acoln Nehr	1 3	20 .			12	1 .				
tle Rock, Ark		12	1 .		46 .		12		1	
ekport, N. V 20,090	1	9			1 .	*****	4			
		4			22		3		2	
gansport, Ind		6			1	*****	3		-	****
ng Beach, Calif							1			****
ng Branch N J		4 .					1			
rain, Ohio		8 .								
s Angeles, Calif 535, 480		40	6	1	6 .		9 .		33	2
s Angeles, Calif. 533, 48: uisville, Ky 240, 806 well, Mass 114, 360		70	4	2	5 .		16 .		6	
well, Mass	1	33 .			6 .		1 .		10	
nn, Mass	1	6 .	3		1 .					
rnn, Mass	1	24	8 .		31	1	5 .		5 3	

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		irlet ver.	Tu	ber- osis.
	by U. S. 1	from all causes.	Cases.	Deaths.	Casos.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Madison, Wis	31, 315 52, 243 79, 607	8	- 1		17		2			
Malden, Mass	52, 243	18	2		1		2		3	1 3
Manitowoe Wis	13 931	4	_		12	*****	1		5	
	1 10, 365	1	1		1					
Marinette, Wis	1 10, 365 1 14, 610 19, 923	3					2		1	
Marion, Ind	19,923	4	1		1		1			
Marion, Ohio	24, 129	3	1		1					
Marlboro, Mass. Marquette, Mich. Marshalltown, Iowa. Martinsburg, W. Va. Mason City, Iowa. Medford, Mass Melrose, Mass. Memphis, Tenn. Methuen, Mass. Middletown, N. Y. Middletown, Ohlo. Milford, Mass.	15, 285 12, 555	2		*****	1 5				2	
Marshalltown, Iowa	12, 555 14, 519 12, 984	-	1		-		1			
Martinsburg, W. Va	12,984				1		1			
Mason City, Iowa	14, 938	2								
Medford, Mass	26,681	9					3		4	1
Melrose, Mass	17, 724 151, 877	9	1		26		2		10	
Memphis, Tenn	14, 320	56			20		9	*****	18	10
Middletown N Y	15,890	0							i	*****
Middletown, Ohio	16,384	3								1
Milford, Mass Milwaukee, Wis Minneapolls, Minn	16,384 14,280 445,008	1								
Milwaukee, Wis	445,008	94	6	1	85 85		15		16	7
Minneapolis, Minn	373, 448	70	18	2	85		21	1	23	0
Missoula, Mont	19,075	6	2	1			2		*****	1
Monagon Pa	27, 976 23, 070	******	2	1		*****	3	*****		1
Montelair, N. J	27,087	******	-		2	*****	0	*****	3	
Missoua, Mont. Moline, III. Monessen, Pa. Montelair, N. J. Montgomery, Ala Morgantown, W. Va Morristown, N. J. Mount Carmel, Pa. Mount Vernon, N. Y. Nanticoke, Pa.	44 039	23			i					
Morgantown, W. Va	14, 444 13, 410 20, 709	4								
Morristown, N. J	13,410	5			7					
Mount Carmel, Pa	20,709	******	2 3			*****	*****	*****	1	
Mount vernon, N. I	37, 991	5	3		1 3	*****		*****		1
Nanticoke, Pa. Nashua, N. H. Nashville, Tenn.	23, 811	A			9	*****	8			
Nashville, Tenn	27, 541 118, 136	38	1		6	1	3		3	2
Natick, Mass	10, 140	6								
Newark, N. J	418, 789	85	38	1	14		14		45	13
New Bedford, Mass	121,622	32	1		12		3		14	5
New Britain, Conn	121, 622 55, 385 25, 855	13	1		1		1		2	1
New Druiswick, N. J.	29, 893	5	3		1		*****	*****	3	
Newburyport Mass	15, 291	5	1	*****	*****				3	
New Castle, Pa.	41, 915				*****		5			
Natick, Mass. Newark, N. J. New Bedford, Mass. New Britain, Conn. New Britain, Conn. New Britain, Conn. Newburgh, N. Y. Newburgh, N. Y. Newburghort, Mass. New Haven, Conn. New London, Conn.	41, 915 152, 275 21, 199	47	7	1	12				4	2
New London, Conn New Orleans, La	21, 199	7	7		3		1	*****	1	
New Orleans, La	377,010	129					4		24	16
Newport, Ry	32, 133	6 9	1	*****		*****			1	1
Newport, R. I	22, 622 30, 585	6	*****	*****	1	*****	3		2	
New Orleans, Ja. Newport, Ky. Newport Nows, Va. Newport, R. I. Newion, Mass. New York, N. Y. Niagara Falls, N. Y. Norfolk, Va.	44, 345	7	1		1					
New York, N. Y	5, 737, 492	1,304	317	24	217	9	86	4	320	144
Niagara Falls, N. Y	38, 466 91, 148	15	3		1		1		2	1
Norfolk, Va	91, 148		1		7		1 5			
Norristown, Pa	31,969	11			24		9		1	******
Northampton Mass	1 22, 019 20, 006	6	2	*****				*****	*****	3
North Tonowanda, N. Y.	14,060	6			2	1			1	*****
Norwich, Conn	21, 923	1					1		5	1
Norwood, Ohio	23, 269	3			10		1			1
Oakland, Calif	206, 405 27, 816 16, 845	49	8				5		6	3
Oak Park, III	27, 816	6	1		57		`1	*****	*****	*****
Oil City Po	20, 162	4			45		*****		· · · · · · ·	*****
Oklahoma City, Okla	97.588	10	2	*****	40	*****	*****			9
Olean, N. Y.	97, 588 16, 927 177, 777 14, 393	10								
Omaha, Nebr	177, 777	32	1		17		8			1
Orange, Conn	14,393	12			1		2			
Ossining, N. Y	14,004	6	1		9				*****	
Parkersburg, W. Va	21,059	3	*****	*****	1		3		*****	
						and the second			1	
Pasadona Calif	49 690	16	*****						1	9
Norristown, Pa	15, 952 49, 620 74, 478	16	1		1		2		ī	3

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	1	theria	Me	asles.		arlct ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	1	Deaths	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Peekskill, N. Y	19,034	5								
Peoria, Ill. Perth Amboy, N. J. Philadelphia, Pa. Phillipsburg, N. J.	72, 184	14	2		2		. 4		2	
Perth Amboy, N. J	42,646	10	70	11	133	1	59	3	7	
Phillipshape N I	1, 735, 514	502	10	11	133		30	3	86	
Phillipsburg, N. J. Phoenixville, Pa. Pme Bluff, Ark.	15,879 11,871 17,777				i			*****		
Pme Bluff, Ark	17, 777						2			
riqua, Onio	14, 275	2	1						1	
Pittsburgh, Pa	586, 196		17		68		17		28	
Pittsfield, Mass Plainfield, N. J. Plattsburg, N. Y Plymouth, Mass	39, 678 24, 330 13, 111	11	1							
Plainneid, N. J	24, 330	5 2	1	*****					2	
Plymouth Mass	14,601	3	1	*****	****			*****		****
Plymouth, Pa	19, 439	0		*****	1					
	12.806						1			
Pomona, Calif.	13, 624 18, 006 16, 727	3								
Pontiac, Mich	18,006		6	1	8					
Pomona, Calif. Pontine, Mich. Port Chester, N. Y.	16, 727	3					1			
ortland, Me	64,720	16					7			
Portland, Oreg	308, 399 29, 356	******	3 2		2		25		5	
Portsmouth, Ohio. Portsmouth, Ohio. Portsmouth, Va. Pottstown, Pa. Providence, R. I.	40,603	27	2		2					*****
Pottstown. Pa	40,693 16,987 30,786	40	2 3		5				- 1	
Poughkeepsie, N. Y.	30, 786	18	3			******	2	******	4	*****
rovidence, R. I	259, 895	63	9	1	3	1	5			1
	56, 684						4			
puricy, Ill	36, 832 39, 022 47, 465	8					1		1	
uincy, Mass	39,022	13	6		2		2		1	
lahman N I	10, 361	9		*****	1				3	*****
tahway, N. J. Raleigh, N. C.	20, 274	9	*****	*****	1				2	
leading. Pa	111,607	D	2	*****	3	*****	1	*****	*****	
leading, Pa. tedlands, Calif	14,573	1		******			î	******	1	
eno, Nev	14,573 15,514 158,702	2			1					
tichmond, Va	158, 702	43			23		3		3	
tiverside Calif. coanoke, Va.	20, 496	7	*****							
loanoke, Va	46, 282	14	1	*****	36	*****				
tochester, N. Y tockford, III tock Island, III. tocky Mount, N. C	264, 714	85 19	9		7 7		. 4		14	
took Island III	56, 739 29, 452 12, 673	6			3					
locky Mount, N. C	12 673	4	1		- 3		*****	*****		
ome, N. Y.	24, 259		î		17				1	*****
ome, N. Y	15,038	4							1	
acramento, Calif	68, 984	26					6		4	
aint Cloud, Mian	12,013 86,498				1	*****				
aeramento, Calif. aint Cloud, Mian t. Joseph, Mo. t. Louis, Mo.	86, 498	16	2		1				1	
t. Paul, Minn	768, 630	191	67	4	145 96	3	15	1	17	2
dem. Nass	252, 465 49, 346	11	2	1	50		5		1	
alem, Nassalem, Oregalt Lake City, Utab	21, 274	2	-				2		-	
alt Lake City, Utah	21, 274 121, 623 1 10, 321	28	1		1		4			
an Angelo, Tex	1 10, 321	1								
n Antonio, Tex	128, 215 17, 616	10							9	1
m Bernardino, Calif	17,616	10								-
m Diego, Caill	56, 412 20, 226	23	1		1				1	1
n Diego, Calif. ndusky, Ohio. nford, Me.	11, 217	7	-		*****	*****	*****			
in Francisco, Calif	471,023	117	20	3	3		2		20	16
n Jose, Calif	39, 810						3		1	1
nta Harbara, Calif	15, 360	3	1							
ratoga Springs, N. Y	13,839	5			1					
ratoga Springs, N. Yugus, Massult Ste. Marie, Mich	10, 210 14, 130	3	1		7		2			
wannah Ga	14,130 69,250	3		1						1
vannah, Gahenectady, N. Yranton, Pa.	103,774	26 16	1		9	1	3		6	- 5
ranton. Pa	149, 541	10	4			1	5		0	1
attle, Wash	366, 445		6				16		19	
aamokin, Pa	21, 274		7		15					
naron, Pa	21, 274 19, 156				1		1			
omerville, Mass	88,618	25	5 1.		3		1		6	

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	1	htheria	. Me	asles.		arlet ver.		iber- losis.
City.	by U.S. al	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
South Bend, Ind	70,967	13		. 1	2					
Southbridge, Mass	14,465	3	*****							
Spartanburg, S. C	21,985	3	1						3	1
Spokane, Wash	157, 656	******	. 1		. 5		. 11			
Springfield, Ill	62, 623	9					. 3			
Springfield, Mass	108,668	31		. 1	1		. 1		1	
Springfield, Mo	41, 169 52, 296	5							*****	
Springfield, Ohio	15, 759	20			5				4	
Steubenville, Ohio	23, 259	4			4			*****		
Stockton Colif	35, 209	6	*****						4	
Sunbury, Pa	16,661				1			*****		
Sunbury, Pa. Superior, Wis. Superior, Wis. Superior, Wis. Superior, Wis. Superior, Wish. Superior, Wash. Superior, Wash.	47, 167	4	1					******		
yracuse, N. Y	120 220	38	3		1		15		5	1
Pacoma, Wash	117, 446		2		7		. 5	*****		
Faunton, Mass	117, 446 36, 610 67, 361 12, 962	7	1		3	1			2	1
terro maute, mu	67, 361	15	1		2		1		1	
Piffin, Ohio	12,962	8							- 1	
Foledo, Ohio	202, 010 49, 538	62	2		168	*****	6		14	
Copeka, Kans	113, 974	41	1		85	*****	1			
renton, N. J.	78,094	28	2	*****	1	*****	1		4	1
ulsa, Okla	32, 507		-			*****			3	
uscaloosa, Ala	10, 824	1	1	*****	*****	*****			2	
tica, N. Y	89, 272	18	5		1		3		6	*****
allejo, Calif	13,803	2								
irginia, Minn	15,954	*******	1	*****	*****					
Vaco, Tex	34,015	9					1			
Vakefield, Mass	12,947	2								
Valla Walla, Wash	26,067								1	
Valtham, Mass	31,011	9	1	*****	*****			*****	1	
Varren, Pa Vashington, D. C	15, C83 369, 282	******	32	*****	*****	*****				*****
Vashington, Pa	22,076	******	4	3	8		18		26	
Vaterbury, Conn	89, 201	1	. 6	1	16		6		3	
Vaterbury, Comn	15, 188				2		0		1	*****
Vatertown, N. Y	30,404		1		1					
Vausau, WisVebster, Mass	19,666	4					1			*****
Vebster, Mass	13, 484	4			1					
Vest Chester, Pa	13, 403		1		8		3			
estfield, Mass	13, 484 13, 403 18, 769	2	2		1				1	
est Heboken, N. J	44, 386 19, 613	9	1	*****			1		1	
Fost Opence N. J.	19,613	4	1							
Theoling W Va	13, 964 43, 657	15	3		3		2		-1	
Vest Chester, Pa. Vest Heboken, N. J. Vest New York, N. J. Vest Orange, N. J. Vheeling, W. Va. Vichita, Kans	73,507	24	î		1	*****	*****		2	
ilkes-Barre, Pa	78,334	2.8	i	*****	18		3		2	
ilkinsburg, Pa	23, 899		î		1	*****	0		2	
'illiamsport, Pa	34, 123		3		16	*****	2		-	****
ilmington, Del	95, 369	22	4		2		2		1	
ilmington, N. C	30,400	11								
inchester, Mass	10, 812	3							1	1
inston-Salem, N. C	33, 136	21	2		14				4	2
inthrop, Mass	13, 105						3 .			
John Mass	16,076	4								
orcester, Mass	166, 106 22, 058	44	6		26	3	6 .	*****	5	(
akima, Washonkers, N. Y	103,066	26	1		6	*****	3 .		*****	
ork, Pa	52 770	20	2		2		3		*****	2
	52,770 112,282	34	2		59	1	3	*****	1	9
oungstown, Ohio										

FOREIGN.

CHINA.

Plague-Hongkong.

During the week ended June 14, 1919, 43 cases of plague with 38 fatalities were notified at Hongkong.

CUBA.

Communicable Diseases-Habana.

Communicable diseases have been notified at Habana as follows:

	May 1-10, 1919.			
Disease,	New cases.	Deaths.	treatment May 10, 1919.	
Broncho-pneumonia. Diphtheria. Leprosy. Malaria.	1 2 20		1 3 17 1 27	
Paratyphoid fever Scarlet fever Typhoid fever	19		166	

¹ From the interior, 24.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During Week Ended June 27, 1919.1

CHOLERA.

Place,	Date.	Cases.	Deaths.	Remarks.
India: BombayCalcuttaRangoon	Mar. 24-Apr. 26 Apr. 27-May 3 Apr. 20-28	48	20 165 4	

PLAGUE.

China: Hongkong. India. Bombay Calcutta Rangoon.	Mar. 24-Apr. 26 Apr. 27-May 3	298	38 243 25 35	Apr. 19-26, 1919: deaths, 4,671.	Cases,	5,919;
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¹ From medical officers of the Public Health Service, American consuls, and other sources.

² From the interior, 29.

Reports Received During Week Ended June 27, 1919-Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil: Rio de Janeiro	Apr. 20-May 3	10	13	
	Apr. 20-May 0	10	10	
Canada: Nova Scotia—				
Halifax	June 1-7	24		Present in 12 localities and in un
Sydney	May 25-June 7	5		stated districts in Richmond
Ontario—	may 20 same			County.
Hamilton	June 8-14	1		
Quebec-	June of Advances and a			
Quebec	June 1-7	4		
Ceylon:				
Colombo	Apr. 20-May 3	7		
China:	aparas may our			
Chungking	Apr. 20-May 3			Present.
Nanking	May 4-17			Do.
France:	2203 - 2111111111111111			
Paris	May 4-17	3		
Great Britain:	,			
Cardiff	May 11-31	5		
India:				
Bomboy	Mar. 24-Apr. 26	404	235	
Calcutta	Apr. 27-May 3		98	
Rangoon	Apr. 20-26	40	28	
Italy:				
Milazzo	May 19-25	6		Province of Messina.
Naples	May 19-25	34	30	
Palermo	May 9-15	10		
Manchuria:				
Dairen	May 6-12	2	1	
Mexico:				
Guaymas				Present in April and May, 1913
Newfoundland:				
St. Johns	May 31-June 13	20		Outports, 18 cases.
Portugal:				
Oporto	May 11-24	28	23	
Spein:			_	
Barcelona	Apr. 24-May 14		7	
Madrid	Apr. 1-30		4	
Valencia	Apr. 27-May 10	119	9	

TYPHUS FEVER.

China: Tsingtao	May 5-11	1		
Great Britain: Glasgow	May 11-24	5	2	
Japan: Nagasaki	May 12-18	1		
Portugal: Oporto	May 11-24	145		

Reports Received from Dec. 28, 1918, to June 27, 1919.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon: Colombo China: Swatow	Nov. 17-30	4	5	Present.
Germany: Berlin Bremen Marienwerder	To Oct. 5 Oct. 13-19	17 1	11	On a barge. 1 case in October, 1918, on a barge in canal.

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

CHOLERA-Continued.

Place		Date.	Cases.	Deaths.	Remarks.
India:					
Bombay		Aug. 18-Dec. 28 Dec. 29-Apr. 26 Sept. 20-Dec. 21	1,354	1,031	
Do		Dec. 29-Apr. 26	9,739	8,539	T)
Calcutta		Sept. 20-Dec. 21	*******	241	Reports for weeks ended Nov. 23,
Do		Dec. 29-May 3		2,377	1918, and Mar. 29, 1919, missing.
Karachi		Jan. 26-Mar. 22	3 264	164	Oct. 27-Nov. 2, 1918; Cases, 9;
Madras		Top 5 Apr 10	430	300	deaths, 4.
Rangoon		Oct. 5-Dec. 28 Jan. 5-Apr. 19 Oct. 5-Dec. 21	35	35	action, and
Rangoon		Dec. 29-Apr. 26	71	58	4.00
Indo-China		1760. 25 Apr. 25			July 1-Oct. 31, 1918: Cases, 753
Anam		July 1-Aug. 31	37	30	deaths, 472.
Cambodia		July 1-Oct. 31	324	171	
Cochin China .			436	337	
Saigon		Oct. 7-Dec. 22	75	45	C14
Do Kwang-Chow-			573	358	City and district.
Kwang-Chow-	Wan	July 1-31	50	34	
Tonkin		July 1-Oct. 31	6		
Java:					Oct 7 Dec 21 1019: Come 201
East Java	************		OFF	400	Oct. 7-Dec. 31, 1918; Cases, 381;
	district	Oct. 7-Dec. 31	655	423	deaths, 323. Jan. 1-Apr. 1,
		Jan. 1-Apr. 1	565	394	Sent 25 Dec 18 1018 Cases
Mid-Java		Sept. 26-Oct. 16	120	111	3.282: deaths, 2.014 Jan 24-
Samarang		Sept. 20-Ост. 10	120	- ***	1019: Cases, 1,171; deaths, 967. Sept. 25-Dec. 18, 1918: Cases, 3,282; deaths, 2,014. Jan. 24- Mar. 27, 1919: Cases, 3,375; deaths, 2,534.
West Java					Oct. 3-Dec. 11, 1918; Cases, 412;
Ratavia		Oct. 3-Dec. 11	291	148	deaths, 238. Dec. 27, 1918-Apr.
Do		Pec. 27-Apr. 17	16	4	Oct. 3-Dec. 11, 1918: Cases, 412; deaths, 238. Dec. 27, 1918-Apr. 17, 1919: Cases, 24; deaths, 11.
Cheribon.		Jan. 3-Mar. 3	3		
Mesopotamia:			8		
Bagdad Philippine Islands		Oct. 11-16			2.2.2
Manila		Sept. 22-Pec. 28	209	135	
Po		Pec. 29-May 3	53	24	
Provinces					Nov. 2-Pec. 28, 1918: Cases, 1,986, deaths, 1,515. Dec. 29, 1918- May 3, 1919: Cases, 1,537; deaths, 1,077.
		Гес. 15-21	1	1	deaths, 1,515. Dec. 29, 1918-
Ambos Ca	marines	Feb. 15-21	10	2	May 3, 1919: Cases, 1,537;
Bataan		Nov. 17-Dec. 28		32	deaths, 1,077.
Do		Jan. 5-11	2	2	
Batangas.		Nov. 2-Tec. 28	258	230	
		Гес. 29-Мау 3	103	77	
		Nov. 2-Dec. 28	29	24 71	
		Dec. 29-Apr. 12 Oct. 12-Vec. 28 Vec. 29-Feb. 21	108		
		Oct. 12-3 ec. 28	51	8 26	
Conia		Гес. 22-28	42	5	
Capiz		Jan. 5-25	28	14	
		Oct. 27-1 ec. 21	207	115	*
Do.		Pec. 29-Apr. 19	18	17	
		Pec. 29-Apr. 19 Nov. 10-Dec. 21	50	27	
Do		Jan. 12-Apr. 19	20	15	
Hoens Sur		rec. 8-28	17	8	
		Dec. 29-Feb. 15	56	38	
Iloilo		Oct. 27-Pec. 21	112	78	
. Do		Jan. 5-Apr. 12 Oct. 27-1 ec. 28	173	109	
Laguna		Oct. 27-1 ec. 28	18	11	
Do		Гес. 29-Мау 3	255	191	
Lanao		Jan. 5-11	8	4	
Mindoro		Nov. 21-30	7	14	
Misamis		Nov. 21-30 Oct. 27-Dec. 28 Jan. 5-Mar. 29	81	53	
Do		Jan. 5-Mar. 29	154	88	
Nueva Ec	ija	Jan. 12-25	9	6 7	
	l Negros	Feb. 2-Mar. 22	10	18	
Oriental I	Negros	Nov. 2-Pec. 7	32		1
Do		Jan. 5-Feb, 15 Nov. 24-Dec. 14	35	22	
rampang		Jan. 5-May 3	186	137	
Donas inc	n	Nov. 2-Dec. 28	930	652	
Pangasina		Dec 29-Apr. 10	170	131	
Piral		Dec. 29-Apr. 19 Oct. 27-Nov. 2	3	1	
Do		Nov. 24-30	16	5	
Samar		Dec. 15-21	8	1	
Sorrogen		Nov. 17-23	.1 8	4	
		Jan. 19-Feb. 8	44	36	
Tavahas.		Jan. 19-Feb. 8 Nov. 3-Dec. 28	60	40	
		Dec. 29-Feb. 15	1 69	62	

Reports Received from Dec. 28, 1918, to June 27, 1919-Continued.

	CHOLERA-	-Conti	nued.	
Place.	Date.	Cases.	Deaths.	Remarks.
Philippins Islands—Continued. Provinces—Continued. Union. Zambosnga Do. Poland: Plonsk district. Warsaw Russia: Petrograd Do. Siam:	Nov. 2-Pec. 28 Dec. 8-28 Jan. 5-Feb. 8 Oct. 2-Nov. 27 Sept. 29-Oct. 26 To July 16 July 17-Sept. 11	27 25 5 5 3,388 3,479	14 19 21 1 1,064 1,455	In civil and military hospitals. In military hospitals, July 5- Aug. 21, 1918: Cases, 884, deaths, 783. In municipal hospitals, Oct. 1, 1918: Cases, 279.
BangkokUkrania: EkaterinaslavOdessa	Mar. 23-Apr. 5 Fopt. 1-20do	6 7 25	6	Sept. 1-20, 1918: 11 cases on s. s. Helena.
	PLA	GUB.		- 10-
Brazil: Porto Alegre Ceylon: Colombo	Oct. 27-Nov. 2	1	1	Present in April, 1919.

Brazil:				
Porto Alegre				Present in April, 1919.
Cevion:			1	1
Colombo	Oct. 27-Nov. 2	1	1	
D)	Jan. 4-Apr. 5		4	20.00
78		1		I. User
Amoy	Nov. 21-Dec. 8			Do.
: Chungking	Dec. 1-7			Do.
Hing-Ning district				Do.
Hongkong	Oct. 1-Dec. 28		4	100.
Hongkong				May 4-17, 1919: Deaths, 65. Ma
Do	Jan. 1-May 3	21		
diam to writing a sea of				18-31, 1919: Cases, 71. Jun
				1-6, 1919: Cases, 41; deaths, 3
				June 8-14, 1919: Cases, 4
				deaths, 38.
Ecuador:				1
Duran	Feb. 16-Mar. 16	2	1 1	
Guavaquil	July 1-Dec. 31	20	7	
Do	Jan. 1-Apr. 30		17	
Taura	Dec. 16-31	1	1	
Cgvpt				Jan. 1-Nov. 21, 1918: Cases, 35
Citios-			1	deaths, 153. Jan. 1-May
Alexandria	Mar. 23	1	1 1	1919: Cases, 202; deaths, 144.
Suez	Jan. 31-Apr. 29	73	44	
Provinces-	June of report account	1	1	
Assiout	Feb. 24-Apr. 17	22	13	16 septicemic.
Beni-Souef	Арг. 22	1	1	To seperconte.
Fayoum	Apr. 26	13	3	
	Feb. 22-Mar. 22		5	2 pneumonic.
Girgeh		3	3	
Minieh	Feb. 21-Apr. 22		. 0	1 pneumonic.
ndia	10 70 09	*******		Sept. 23-Dec. 28, 1918: Case
Bombay	Aug. 18-Dec. 28	41	29	24,279; deaths, 18,369. Dec. 2
Do	Jan. 12-Apr. 26	366	295	1918-Mar. 1, 1919: Cases, 25,50
Calcutta	Dec. 22-28	*******	1	deaths, 19,401. Mar. 9-15, 191
Do	Jan. 12-May 3		193	Cases, 13,981; deaths, 5,40
Karachi	Oct. 19-Dec. 28	17	17	Mar. 30-Apr. 12, 1919: Case
Do	Dec. 29-May 7	73	60	6,854; deaths, 5,550. Apr. 19
Madras	Dec. 8-28	26	17	26, 1919: Cases, 5,919; death
Do	Dec. 29-Apr. 5	206	117	4,671.
Madras Presidency	Oct. 13-Dec. 28	1,152	774	Oct. 27-Nov. 2, 1918; Cases, 14
Do	Dec. 29-Apr. 19	2,583	1,743	deaths, 38.
Rangoon	Oct. 5-Dec. 21	84	81	
	Dec. 29-May 19	424	407	
ndo-China	2001 20 1123			July 1-Oct. 21, 1918: Cases, 16
Anam	Inly 1-Oct 31	42	36	deaths, 145.
Cambodia	do	72	72	doubles, and
Cochin-China	do	65	35	
Saigon district		00	- 40	Jan. 13-Apr. 20, 1919: Cases, 3
Chalen	Apr. 7 00	******		
Cholon	Apr. 7-20	1	********	deaths, 26.
	Oct. 7-Nov. 24	5	1	
Do	Apr. 7-20	1	********	
Kwang-Chow-Wan	July 1-31	1	1	

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java:				I
East Java				Oct. 7-Nov. 18, 1918: Cases, 109;
Surabaya (district)	Oct. 7-Dec. 31		92	deaths, 109. Jan. 1-Apr. 1.
Do	Jan. 1-Apr. 1	59	59	1919: Cases, 238; deaths, 238.
Mid-Java				Sept. 25-Oct. 16, 1918; Cases, 14;
Samarang	Sept. 25-Oct. 16	6 7	6	deaths, 14. Jan. 30-May 14,
Do	Mar. 21-27	7	7	1919: Cases, 220; deaths, 220.
Mesopotamia:				
Bagdad	Nov. 16-29	- 5	2	
Do	Feb. 22-May 18	222	133	
Blam:				
Bangkok	Sept. 21-Oct. 12	6	- 5	
Do	Jan. 19-Feb. 22	6 7	6	
Venezuela:				
Caracas	Dec. 30	1		
On vessel:				
S. S. Japan	Jan. 14	1	1	At Sucz quarantine station from
o. o. supum.	***************************************		-	Bombay.
S. S. Sparta	May 21	1	1	At Liverpool, England, from
ne ne neprimentation	may			Bombay.

SMALLPOX.

	1 -	1		1
Algeria:	4.5			
Algiers	Oct. 1-Dec. 31 Mar. 1-31		1 1	
Arabia:	4 14 04			-
Aden	Apr. 14-21		1	Des 1 1010 Ten 11 1010: Cons
Austria Vienna	Dec. 1-Jan. 11	6		Dec. 1, 1918-Jan. 11, 1919: Cases, 68. Jan. 12-Mar. 15, 1919:
Do	Feb. 9-Mar. 15	28		Cases, 154.
Bohemia	100.0 14.1.1	-		Feb., 1919: Reported prevalent.
Gablonz	FebMar	974	19	Mar., 1919: Cases, 57.
Bahia	Mar. 30-Apr. 5	. 5		
Rio de Janeiro	Dec. 1-28	46	19	Oct. 6-12, 1918: Cases, 15; deatha.
Do	Dec. 30-May 3	52	32	10.
Sao Paulo	Mar. 3-Apr. 25		4	
British East Africa:				
Mombasa	Sept. 1-Nov. 30	6	1	
Canada:				
New Brunswick—				
Campbellton	Dec. 22-28	1		
Do	Jan. 5-May 10			
8t. John	Nov. 8-14	3		
Do	Jan. 26-Feb. 22	6		
Nova Scotia—				
Bear River	Dec. 29-Jan. 4			Present.
Bigbee	Jan. 10			Do.
Cape Sable Island	May 13			Present on south side.
Digby	Jan. 4			Present.
Halifax	Dec. 7-28			Descent in 90 other lecalities
Do	Jan. 5-June 7	391		Present in 20 other localities.
Middleton	Dec. 29-Jan. 4 Jan. 5-June 7	*******		Present.
Sydney	Jan. 3-June /	38	********	
Ontario— Hamilton	June 8-14	1	-	
North Bay	Jan. 19-25		********	
Ottawa	Jan. 12-May 31	14	********	
Toronto.	Feb. 2-15	2	********	
Do	Mar. 16-22	î	*********	
Prince Edward Island-	Mat. 10-22		********	
Charlotte Town	Feb. 27-Apr. 16	2		
Quebec-	reb. at Aspr. so	-	*********	
Montreal	Jan. 24-Dec. 21	2		
Do	Jan. 12-May 10	32		
Paspebiac	Jan. 12-Mar. 8	8		
Quebec	Dec. 15-21	i		
Do	Dec. 29-June 7	35		
Cevlon:		-		
Colombo	Jan. 12-May 3	12		

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks:
China:				
Amoy	Oct. 13-Dec. 28			Present.
Do	Mar. 11-Apr. 14	4	3	Do.
Antung	Mar. 11-Apr. 14 Feb. 10-16	i		1
Do	Feb. 24-Mar. 2	1		
Canton	Nov. 17-23		1	Do.
	Feb. 9-May 3			Do.
Do	Mor 16 Apr 12	5		170.
Changsha	Mar. 16-Apr. 12 Nov. 10-Dec. 28	.0		Des
Chungking	Nov. 10-Dec. 28			. Do.
Do	Jan. 5-May 3		1	Do.
Foochow	Nov. 24-Dec. 28			. Do.
Do	Dec. 29-Apr. 5			Do.
Hankow	Apr. 13-19 Dec. 15-21	1		
Hongkong	Dec. 15-21	1	1	
D ₀	Fab 2-3		1	
D ₀	Feb. 16-May 3	16	5	
Nanking	Dec. 1-28			Do.
Do	Dec. 29-May 17	3		Do.
Do	Jan. 20-26	1		The state of the s
Tientsin	May 4-10	i		
Tsingtao	Mar. 3-9	2		
Chosen (Korea):				
Chomulno.	Nov. 1-Dec. 31	15	1 4	
Chemulpo	Jan. 1-Mar. 31	16	7	
D ₀	Jun. 1-Mar. 31			
Fusan	Feb. 1-Mar. 31	20		
Seoul	Feb. 1-Mar. 31	3	1	
Colombia:		-		1
Barranquilla	Apr. 6-12		. 1	
Denmark:			1	
Copenhagen	Nov. 9-Dec. 28	12		1100
D ₀	Dec. 29-May 3	121		
Sgypt:			1	
Alexandria	Dec. 17-23	1	1	
Do	Jan. 22-May 13	80	24	
		00		Jan. 1-Apr. 15, 1919: Cases, 906.
Provinces:				3001. 1-26 pt. 10, 1910. Cases, 500.
A he Ook Dissuchers	You 1 Apr 15	91		
Abo Och Björneborg Kuopio	Jan. 1-Apr. 13			
Kuopio	do	188	********	
Nyland	do	25		
St. Michael	do	135		
Tavastehus	do	16	********	
AleaborgVasa	do	1		
Vasa	do	16		
Viborg	do	464		
rance:				
Bordeaux	Feb. 8-13		1	
Bordeaux	Feb. 2-8	1		
Paris	Mar. 2-May 17	20	3	
lermany				Nov. 24-Dec. 7, 1918; Cases, 34
Dresden	Nov. 24-Dec. 7	18		Dec. 8, 1918-June 11, 1919
Friedland	do	1		Cases 177 Additional case
Hallo	do	i		reported later 54 for week
2001				ended Ian 11 Feb 16-Mar
				Nov. 24-Dec. 7, 1918; Cases, 34 Dec. 8, 1918-June 11, 1916 Cases, 177. Additional case roported later, 54, for weel ended Jan. 11. Feb. 16-Mar 22, 1919; Cases, 290; amon
				soldiers and prisoners of war
				745 cases.
Wänigeberg	da	8		In nersons expended from the
Königsberg Schkeuditz				In persons evacuated from the Ukraine,
Schkeuditz	do	1	******	Okraine,
Tilsit	00	1		
Torgau	do	1		
ermany:				
Aix-la-Chapelle (district)	Dec. 8-Jan, 11	17		100
Aix-la-Chapelle (district) Cassel	do	10		11 14 14 11 11 11 11 11 11 11 11 11 11 1
Danzig	do	3		
Dorigthal	do	8		District of Gumbinnen,
Dresden	Dec. 8-Feb. 15.	247		26 additional cases reported late
Halle	Dec. 8-Jan. 11.	5		at Dresden.
Hanover	do	7		Among interned Russians.
Drisden	do	15		the state of the s
Kottowitz	do	5		
ALUGUWIUM		6		
Meyrode				District of Deceder
Riesa	do	4		District of Dresden.
reat Britain:		-	-	
Cardiff. Liverpool	May 11-31	5	1	044
Laverpool	Jan. 26-Mar. 15	7		Of these, 2 from vessels.
Landon	Mar. 9-May 17	17	2	
LondonSouthampton	mint. o-may tr	1		

Reports Received from Dec. 28, 1918, to June 27, 1919—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:	Feb 2 May 10		67	*
Saloniki	Feb. 2-May 10		. 87	
Bombay	Aug. 18-Dec. 28	. 35	8	
Do	Dec. 29-Apr. 26	831	414	
Calcutta	Sept. 29-Dec. 28		. 17	Reports for weeks ended Nov. 23
Do	Dec. 29-May 3		. 785	1918, and Mar. 29, 1919, missing
Karachi	Sept. 29-Dec. 28	13	1 4	
Do	Dec. 29-May 3	176	86	1
Madras	Cct. 5-Dec. 28	62	40	
Do	Dec. 29-Apr. 19 Oct. 20-Dec. 21	295 32	131	
Rangoon	Dec. 29-Apr. 26	1, 190	488	
ndo-China	Dec. 25"Apr. 40	1,100	400	July 1-Oct. 31, 1918: Cases, 620
Anam	July 1-Oct. 31	146	67	deaths, 254.
Cambodia	Ang 1-Oct 31	165	74	araning arm
Cochin-China	July 1-Oct. 31 Cct. 7-Dec. 22	400	112	
Saigon	Cct. 7-Dec. 22	20	5	
Do	Dec. 39-Apr. 6	119	21	City and vicinity. Apr. 7-20
Tonkin	July 1-Cct. 31	20	1	1919: District, cases, 33; city, 1
taly:				
Andria	Mar. 10-16	1		Province of Bari.
Barletta	Mar. 3-9	2		Do.
Castroreale	May 12-18	1	1	and the same of th
Genoa	Jan. 9-Mar. 15	4 2	2	
Lecce (Province)	Feb. 17-23 Apr. 14-30	1		
Messina	Mar. 2-May 18	7		Cases reported in several local
Milazzo	May 12-25	ui	1	ties in Province, Mar. 2-30.
Naples	May 12-25 Mar. 10-May 25	109	92	etco in a tovince, man. 2-00.
Palermo	JBH, 31-MBY 10	63	2	
Turin	Jan. 27-Mar. 23	9	2	
apan:				
Kobe	Oct. 26-Dec. 28	: 186	46	
: Do	Dec. 29-May 3	630	220	
Nagasaki	Mar. 31-Apr. 6	3		
Nagoya	Mar. 2-15	2		
Taihoku	Jan. 15-Apr. 29	152	18.	Island of Formosa.
Tokyo	Apr. 26 Jan. 20-Apr. 27	1		
Yokohamaava;	Jan. 20-Apr. 27	2		
East Java				Oct 7-Dec 31 1018: Cours 99
Surabaya (district)	Oct. 7-Dec. 31	16		Oct. 7-Dec. 31, 1918: Cases, 22 deaths, 1, Jan 1-Feb 25, 1919
Do	Jan. 1-Feb. 25	4	2	Cases, 4: deaths, 3.
Mid-Java				deaths, 1. Jan. 1–Feb. 25, 1919 Cases, 4; deaths, 3. Sept. 25–Dec. 18, 1918: Cases, 172 deaths, 3. Jan. 24–30, 1919
387a-A 7				Case, I.
West Java	Oot 9 Dec 11	105	****	Case, 1. Oct. 2-Dec. 11, 1918: Cases, 809 deaths, 263. Dec. 27, 1918- Apr. 7, 1919: Cases, 710; deaths, 153.
Batavia	Oct. 2-Dec. 11	185	151	Apr. 7 1919: Conto 710: double
Do	Dec. 27-Apr. 17	54	31	153.
ithuania				Sept. 1-Oct. 16, 1918: Cases, 44,
fanchuria:				softer a corr and annual consumption
Dairen	Jan. 15-21	1		
Do	Feb. 22-May 12	7	3	
lesopotamia:				
Bagdad	Oct. 11-Dec. 27	308	97	
Do	Dec. 28-Feb. 9	8	*******	
exico:				
Ciudad Juarez	Nov. 24-30	1		
Guadalajara	Mar. 1-31	1	*******	
Do	Mar. 29-Apr. 30	1		December April and May 1010
Guaymas Mexico City	Sept. 22-Dec. 28	23	********	Present in April and May, 1919.
Do	Dec. 29-May 3	28		
Vera Cruz.	Feb. 10-Apr. 12	2	1	
ewfoundland				Outports-Dec. 6-27, 1918: Cases
St. Johns	Dec. 6-20.	4		78. Dec. 28, 1918-June 13, 1919
Do	Jan. 24-June 13,	71		Cases, 351.
anama				Aug. 1-31, 1918; Cases, 133, oc.
Colon	Dec. 15-21	1		curring at Colon, Panama, and
Do	Dec. 29-Feb. 9	8		curring at Colon, Panama, and points in the interior. Jan 1-25, 1919; Cases, 28.
hilippine Islands:				1-25, 1919; Cases, 28.
Manila	Nov. 2-16	5	3	
DO	Dec. 29-Apr. 19	43	. 22	Varioloid, 16.
ortugal:	M 10 D 00	0.40		
Lisbon	Nov. 16-Dec. 28	843	121	

Reports Received from Dec. 28, 1918, to June 27, 1919-Continued.

SMALLPOX—Continued.

Place.	Date	Cases.	Deaths.	Remarks.
Portuguese East Africa:				
Lourenco Marques			********	July 1-Oct. 31, 1918; 45 fatal cases.
Siberia: Vladivostok	Nov. 1-3			
Do	Jan. 17-23 Feb. 1-Mar. 15	16	1	1
Spain:				
Barcelona	Jan. 9-Feb. 11 Feb. 19-May 14		. 9	
Bilbao	Jan. 1-Feb. 20	6		
Cadiz	Oct. 1-Dec. 31 Jan. 1-Mar. 31		35	1000
Madrid	Sept. 1-Oet. 31		153 85	
Do Seville	Jan. 1-Apr. 30 Nov. 1-Dec. 31		8	
Do Valencia	Jan. 1-Mar. 31 Nov. 10-Dec. 31		5 9	
Do	Dec. 29-Jan. 25	93	10	
Do	Feb. 16-May 10	635	54	
Penang	Oct. 6-12 Feb. 2-22.			
Singapore				1
Stockholm	Feb. 2-8		1	
Tunis	Apr. 26-May 8	- 5	1	100.0
Union of South Africa: Cape Town	Aug. 1-30	1		A CONTRACTOR
Do	Dec. 21-Jan. 31			Nov. 1-30: Cases, 4.
Johannesburg On vessels:	Aug. 1-Oct. 31		********	
S. S. Euripides	Mar. 21	-1		From England via Suez and Colombo. Case removed at
personal contraction of the cont			7	Colombo. Vessel arrived Fre-
S. S. Port Sydney	Mar. 13	1	1	mantle, Australia, Apr. 10. From Egypt to Australia via
				Colombo. Arrived Fremantle
8, 8. Ulimaroa	Mar. 26	1		From Egypt via Colombo. Case
		7	-	developed after arrival at Colombo. Vessel arrived at
				Fremantle, Australia, Apr. 8.

TYPHUS FEVER.

Algeria:	Nov. 1-30	1		10.7
Austria				Dec. 1, 1918-Jan. 11, 1919: Cases,
Austra				125. Jan. 12-Mar. 15, 1919: Cases, 479.
Vienna	Dec. 1-Jan. 11	110		Occurring almost exclusively in
Do	Jan. 12-Mar. 15	410		repatriated soldiers and their
Brazil:				contacts.
Cenra	Sept. 14-21	1		
Rio de Janeiro	Dec. 15-22	2		
Do	Dec. 29-Feb. 22	29	3	
Sao Paulo,	Jan. 13-19	3		
Bulgaria:				
Aeteven	Mar. 10			Present.
Rustchuk	do			Do.
China:				
Antung	Dec. 2-15	2		
Do	Jan. 6-Apr. 20	3	1	
Chosen (Korea):	Line and the second			The state of the s
Fusan	Feb. 1-28	1	1	
Seoul	Jan. 1-Feb. 28	12	1	
Colombia:				
Barranquilla	Nov. 8-Dec. 28		3	
Do	Jan. 5-Mar. 8	2	3	
Egypt:				
Alexandria	Oct. 14-Dec. 31	85	36	
Do	Jan. 1-May 13	967	255	Confined to one quarter of city and mostly to natives. Oct. 20-Nov. 7, 1918: Cases, 12; deaths, 1.

Reports Received from Dec. 28, 1918, to June 27, 1919--Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Finland				Jan. 1-Apr. 15, 1919: Cases, 80.
Provinces-	Inn 1 Apr 15	61		
Abo Och Björneborg	Jan. 1-Apr. 15	17		d'av
Nyland Uleaborg	Mar. 1-31	1		T.Coat
Viborg	Apr. 1-15	1		1
France:	April and	-		
Marseille	Mar. 1-31			Apr. 26, 1919, present in 2 civi
Germany:			1	and 2 military prisons.
Breslau	Sept. 29-Oct. 19	12	8	0.87.04
Gumbinnen district	Oct. 20-Nov. 7	1		
Dresden	do	1		- 11
	do	1		10 TH 10 MIN
Godullabutte	do	1		
Königsberg	Sept. 29-Oct. 19 Oct. 20-Nov. 7	3	1	_ ***
Königshutte	Oct. 20-Nov. 7	1	1	1.5
Magdeburg	do	2	2	District of Allowand
Mostalten	Sept. 29-Oct. 19 Oct. 2)-Nov. 7	7	2	District of Allenstein.
Oppeln district	Oct. 23-Nov. 1	5	4	
Great Britain:	Feb. 2-Mar. 22	4	1	
Cork	Dec. 22-28	5		
Do	Jan. 5-Feb. 8	9	1	
Do	Mar. 9-15	1		
Liverpool	May 11-17	i		From vessel.
Treece:				
Athens	Mar. 8	2	- 2	
Saloniki	Mar. 8 Sept. 29-Dec. 21		34	
Do	Dec. 29-May 10		117	
Hungary				Sept. 9-Nov. 26, 1918; Cases, 110
to save to me a			140	Sept. 9-Nov. 26, 1918: Cases, 110 deaths, 8. Nov. 27, 1918-Feb 2, 1919: Cases, 473.
Budapest	Sept. 3-Nov. 26	75	2	
Do	Jan. 13-Feb. 2	131	7	Nov. 27, 1918-Jan. 12, 1919: Cases 159.
Debreczin	Jan. 20-Feb. 2	42		
Pressburg	Sept. 29-Nov. 6 Nov. 4-26	11	1	
Szatmarneneti	Nov. 4-26	1		Present in county of Bihar.
Tyrnau	do	1		1 - 40 4
taly:			1	
Aquila Province	Apr. 28-May 4	24		One locality. Prisoners of war
Arezzo Province	Apr. 7-May 4	5		At Arezzo.
Avellino Province	Apr. 7-May 4 Apr. 28-May 4	1		
Bari Province	Feb. 3-May 4 Apr. 7-13 Apr. 28-May 4	19		
Belluno Province	Apr. 7-13	1		
Caltanisetta Province	Apr. 28-May 4	1		
Caserta Province	do	85 22		
Genoa	Apr 00 May 4	6		
Leghorn	Apr. 7-May 4 Apr. 28-May 4 Apr. 14-27	9	2	
Nanlee	Feb 2-May 11	15	-	
Naples Novara Province	Feb. 3-May 11 Apr. 7-13 Apr. 28-May 4	10		
Pisa Province	Apr 28-May 4	4		
Porto Maurizio Province	do	1		
Reggio Calabria Province	do	i		
Rome Province	do	17		
Salerno Province	do	5		
Taranto	Feb. 3-Apr. 13	4		
Udine Province	Apr. 7-13	13		At Cividale, 11 cases; at Udine, 2
Venice Pr_vince	Apr. 28-May 4	8		
apan:				
Nagasaki	Nov. 10-Dec. 29	13	4	
Do	Dec. 30-May 4	53	6	
ava:				
East Java				Oct. 7-21, 1918: Cases, 5,
Surabaya	Oct. 7-21	4	*******	Comb 05 Oct 10 1010 Oct
Mid-Java		******	********	Sept. 25-Oct. 16, 1918: Cases, 3.
West JavaBatavia.				Oct. 2-23: Cases, 31: deaths, 6,
	Oct. 2-23	15	4	Sant 1 Oct 00 1010 Carrie
				Sept. 1-Oct. 26, 1918: Cases, 539 deaths, 26.
ithuania				CLEATERS OF
ithuanialacedonia:	35 17			Decreed.
ithuanialacedonia: Drama	Mar. 17			Present.
ithuanialacedonia: Drama Epirus	Mar. 21	900		Present. Do.
Jithuania	Mar. 17 Mar. 21 Mar, 17	300		Present.
ithuanialacedonia: Drama Epirus	Mar. 21	300		Present. Do.



Reports Received from Dec. 28, 1918, to June 27, 1919-Continued.

TYPHUS FEVER-Continued.

Place	Date.	Cases.	Denths.	Remarks.
Mexico:		-	-	
Aguascalientes	Feb. 2-23		3	The second second second second
Do	Mar. 24-Apr. 13		4	
Guadalajara	Nov. 1-Dec. 31	4	1	and the second s
Do	Jan. 1-Apr. 30	9		Color September 2
Mexico City	Sept. 22-Dec. 28	434		The same of the sa
Do	Dec. 29-May 3	644		Arter
Netherlands:	210, 20 1.43 0			The second secon
Amsterdam	Dec. 8-14	1		married and the
Do	Jan. 12-Apr. 12			
Delft	Feb. 23		********	Present.
Harlem	do			Do.
Taiden	do	******	********	Do.
Leiden	do		1	Mining distruct.
Limburg		4		mining distruct.
Nanldwijk	Mar. 30-Apr. 19		*********	Jan. 30-Peb. 27, 1919: Cases, 462.
Rotterdam	Feb. 2-Apr. 12	507	90	Jan. 35-Peb. 21, 1919: Cases, 402.
			100	deaths, 46.
Schiedam	Feb. 26		*********	Present.
Wateringen	Mar. 30-Apr. 5	1	********	04 00 O-4 00 1010 Cones 570
Poland				Sept. 29-Oct. 26, 1918; Cases, 572,
				deaths, 50.
Lodz	Sept. 29-Oct. 26	55	8	5/1
Warsaw	do	111	13	
Portugal:	1			The state of the s
Braga	Mar. 24			the same of the sa
Oporto	Mar. 8-May 10	889		- 1755.61
Russia:				
Archangel	Jan. 15-Apr. 15	224	63	The second second
Serbia:	3.14	1	100	Committee of the commit
Belgrade	Feb. 5	62		Among soldiers and prisoners.
Siberia:				A STATE OF THE STA
Vladivostok	Sept. 1-Dec. 30	43		The state of the s
Do	Jan. 17-Mar. 15	143	15	
Spain:	1			
Huelva	Oet. 1-31		2	
Madrid	Dec. 1-31		1	
Funis:			1775 A	The second second second
Tunis	Apr. 12-May 8	4	2	
U krania	1			Apr. 5, 1919: Reported to be
Union of South Africa:		******	********	spreading.
Port Elizabeth	Sept. 14-28			Present among natives in several
		*******		interior towns.
	The second secon		-	ANTONIO COMMEN

YELLOW FEVER.

·			1
Brazil:			
Bahia	Jan. 12-Mar. 1		2
Pernambueo	Oct. 1-Nov. 30	2	1
Colombia:			
Cartagena	Jan. 29-Feb. 4		- 4
Ecuador:			
Babahoyo	Nov. 1-30	1	
Do	Mar. 1-15	1	
Catarama			
Chobo	Jan. 1-15		
Daule	do	1	11
Duran	Nov. 1-Dec. 31	3	2
Do		5	1
Guayaquil	July 1-Dec. 31	326	177
Do		124	68
Hacienda Vainilla		141	00
	Nov. 1-15	1	********
Milagro		2	
Do	Feb. 1-Mar. 15	2	1
Naranjal	Nov. 1-15	1	1
Do	Jan. 1-15	1	1
Naranjito	Nov. 1-15	1	1 1
Do	Jan. 1-Feb. 28	2	2
Payo (Hacienda)		1	
Punta de Piedra	Nov. 1-30	1	********
Salvador:	4 1 1 1 1		
San Salvador	Jan. 9	1	
On vessel:			
8. 8. Jamaica	Jan. 30	1	

At quarantine station, Canal Zone, Panama.

